

Exhibit A

Curriculum Vitae for Candidates to the AAP

Dr. James B. Brewer

CURRICULUM VITAE

JAMES B. BREWER, M.D., PH.D.

CONTACT INFORMATION

Address Alzheimer's Disease Cooperative Study, Imaging Core
Comprehensive Alzheimer Program
Human Memory Laboratory
University of California, San Diego
8950 Villa La Jolla Drive C212
La Jolla Village Professional Center
La Jolla, CA 92037

Phone (858) 534-1237

Fax (858) 534-1240

Email jbrewer@ucsd.edu

Web <http://hml.ucsd.edu>

California Medical License CA A89348

NPI 1033144985

POSITIONS AND TRAINING

2014-Present	Professor, Neurologist, UCSD Radiology and Neurosciences
2016-Present	Interim Chair, UCSD Department of Neurosciences
2016-Present	Interim Director, Shiley-Marcos Alzheimer's Disease Research Center
2008-Present	Director, Alzheimer's Disease Cooperative Study Imaging Core
2008-Present	Director, Clinical Quantitative Imaging Program, UCSD Radiology
2008-Present	UCSD Center for Molecular Imaging/PET Director of Neuroscience
2006-Present	Clinical Core, UCSD Alzheimer's Disease Research Center
2004-Present	Principal Investigator- ADNI, ADNI-GO, ADNI-DoD, ADNI 2, Janssen 301,302, 351, ACCtion, SUMMIT
2004-Present	Director, Human Memory Laboratory
2010-2014	Associate Professor, Neurologist, UCSD Radiology and Neurosciences
2004-2010	Assistant Professor, Neurologist, UCSD Radiology and Neurosciences
2001-2004	Neurology Residency, Johns Hopkins

2000-2001	Medical Internship, Saint Vincents' Hospital, Manhattan
1993-2000	M.D./Ph.D., Medical Scientist Training Program, Stanford University
1992-1993	Fulbright Scholarship, Weizmann Institute of Science, Rehovot, Israel
1990	University of California-Berkeley, Integrative Biology Program
1988-1992	B.S., Missouri State University, Biology and Psychology, Chemistry

NATIONAL BOARD CERTIFICATION

January 2006-	American Board of Psychiatry and Neurology
	Diplomate in the Specialty of Neurology
	Certificate 53462

HONORS AND AWARDS (SELECTED)

2013- present	Chair, NIA-Neurobiology of Aging
2013	Distinguished Investigator, Academy of Radiology Research
2009	UCSD School of Medicine Excellence in Teaching Award Nominee
2000	Convocation Address, Stanford School of Medicine
1993	Fulbright Scholarship – Neuroscience Research in Israel
1992	National Institutes of Health – Medical Scientist Training Program Grant
1992	Convocation Address, Missouri State University
1992	Outstanding Graduating Senior Award– MSU College of Science and Mathematics

PRIOR RESEARCH EXPERIENCE

1994-2000	Stanford University Neurosciences Program Department of Psychology Advisor: John D.E. Gabrieli Ph.D. Thesis: <i>Functional imaging of the medial temporal lobe during memory formation and retrieval</i>
1992-1993	Weizmann Institute of Science Department of Structural Biology Advisor: Joel Sussman and Israel Silman Research Topic: <i>X-ray crystallography of acetylcholinesterase and its inhibitors</i>
1992	Mayo Clinic-Jacksonville, Florida

Department of Medicinal Chemistry
 Advisor: Alan Kozikowski
 Research Topic: *Computer modeling studies of the anticholinesterase activity of Huperzine A*

- 1991 Mayo Clinic-Rochester, Minnesota
 Department of Physiology and Biophysics
 Scholl Foundation Fellowship in the Neurosciences
 Advisor: Joseph Szurszewski
 Research Topic: *Three-dimensional reconstruction and analysis of autonomic neurons using confocal microscopy and image reconstruction software*
- 1990 Lawrence Berkeley Laboratories
 Department of Energy, Science and Engineering Research Semester
 Department of Research Medicine
 Advisor: William Jagust and Thomas Budinger
 Research Topic: *MRI, PET and SPECT imaging studies of Alzheimer's disease*
- 1990 University of Southern California
 National Science Foundation Research in Residence Program
 Loker Hydrocarbon Research Institute
 Advisor: George Olah, Nobel laureate
 Research Topic: *Selective benzylic oxidation using ozone and pyridine*

RESEARCH INTERESTS

Goal	(1) to advance our understanding of the neural basis of memory formation and retrieval (2) to apply technical advances and discoveries in neuroimaging to the early diagnosis and treatment of memory disorders
Techniques	<u>Structural</u> : Quantitative structural MRI including volumetry, diffusion tensor imaging, and longitudinal quantification of subregional volumetric change. <u>Functional</u> : Positron Emission Tomography, Event-related functional MRI; electrophysiologic recordings from scalp, surface and depth electrodes to obtain event-related potentials (ERP) and gamma-band activity related to memory; combining functional imaging techniques to improve spatial and temporal resolution.

TEACHING EXPERIENCE

2004-present	UCSD Neurology Clerkship UCSD Neurology Residency UCSD Neurosciences: NEU 200C- Cognitive Neuroscience SOMI 276C- Advanced fMRI Methods Advisor UCSD Neuroscience/Bioengineering Graduate program: Ph.D. advisor, Prior Students: Tyler Seibert, Ph.D., Medical Scientist Training Program UCSD
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Jena Hales, Ph.D., Postdoctoral Fellow UCSD
Sarah Israel-Gimbel, Ph.D., Postdoctoral Fellow Hebrew University
Julia Hamstra, Ph.D., Postdoctoral Fellow UCSF

Postdoctoral Advisor-
Sanja Kovacevic, Ph.D.
Michael Pitts, Ph.D.

Current Students
Emilie Schwager (Neurosciences),
Elizabeth Murphy (MSTP Neurosciences)

Thesis committee member for Yael Shrager (Neurosciences), Jen Aron (MSTP Neurosciences), Peter Wais (Psychology), Jessica Rickert (Neurosciences), Kelly Landy (Neurosciences), Valerie Griffith (Bioengineering), Kate Murray (Neurosciences), Adnan Majid (MSTP Neurosciences)

2001-2004	Mentor and teacher for Johns Hopkins medical students Average teacher rating=3.89 on scale of 1 to 4
2001-present	Invited instructor, Falcon Reviews USMLE review course-Dallas, Texas Instruction of neuroscience/neurology to classes of U.S. and foreign medical students
1995-1998	Research mentor, Stanford University Undergraduate Research Program
1995	Instructor, <i>The biological basis of learning and memory</i> Summer course for Stanford University Department of Psychology
1994-1997	Principal Teaching Assistant, <i>Neurobiology 200</i> Stanford Medical School; Responsible for organizing teaching activities of other teaching assistants and lecturing on topics of neuroanatomy.

PROFESSIONAL ASSOCIATIONS AND NATIONAL MEDICAL SOCIETY LEADERSHIP

American Academy of Neurology

Meeting Planning Committee and Abstract Review

Session Planning and Session Chair

American Neurological Association

Session Planning and Session Chair

Organizer of Mini Symposium, "Imaging to Explore Neural
Network Structure and Function"

Society for Neuroscience

Abstract Review

Memory Disorders Research Society

Nomination Committee

American Society for Neuroradiology

ASNR Neurosciences Education Research Foundation Faculty

National Institute on Aging Alzheimer's Disease Cooperative Study

National Steering Committee

Alzheimer's Disease Neuroimaging Initiative

Steering Committee

National Alzheimer's Association

Medical Science Board

HBO/Alzheimer's Project Scientific Panel

National Alzheimer's Strategic Plan

Alzheimer's Study Group

National Critical Path/Coalition Against Major Diseases

Advisory Board/Imaging Subteam

Biomarkers Board

Cognitive Neuroscience Society

Organization for Human Brain Mapping

INTERNATIONAL JOURNAL EDITORIAL DUTIES

March 2010-2012	International Journal of Alzheimer's Disease- Editorial Board and Section Editor
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AD HOC REVIEWER

Trends in Neurosciences
Journal of Neuroscience
Journal of Child Psychology and Psychiatry
Neurology
NeuroImage
Neuron
PlosOne
Hippocampus
Brain
Brain Research
Proceedings of the National Academy of Sciences
Cerebral Cortex
European Journal of Neuroscience
Behavioural Brain Research
Neurobiology of Aging
Human Brain Mapping
Alzheimer's Disease and Associated Disorders

GRANT REVIEW

National Institute on Aging
 Standing Member NIA-N Study Section
 Neurobiology of Aging
Israel Science Foundation
Health Assistance Research Foundation
American Foundation for Aging Research
National Institute on Aging Recovery Act Study Section (ad hoc)

ADVISORY BOARDS (SELECTED)

Lilly Biomarker Business Unit

Bristol Myers Squibb Pharmaceuticals

Avanir Pharmaceuticals

Elan Pharmaceuticals Imaging Advisory Board

PUBLICATIONS

Desikan RS, Schork AJ, Wang Y, Witoelar A, Sharma M, McEvoy LK, Holland D, **Brewer JB**, Chen CH, Thompson WK, et al. (2015) Genetic overlap between Alzheimer's disease and Parkinson's disease at the MAPT locus. *Mol Psychiatry* Feb 17. Epub ahead of print

Reas ET, **Brewer JB** (2014) Mean signal and response time influences on multivoxel signals of contextual retrieval in the medial temporal lobe. *Brain Behav* Dec 24 Epub ahead of print

Brezova V, Moen KG, Skandsen T, Vik A, **Brewer JB**, Salvesen O, Håberg AK. (2014) Prospective longitudinal MRI study of brain volumes and diffusion changes during the first year after moderate to severe traumatic brain injury. *Neuroimage Clin.* Mar 28;5:128-40.

Gimbel SI, **Brewer JB**. (2014) Elaboration versus suppression of cued memories: influence of memory recall instruction and success on parietal lobe, default network, and hippocampal activity. *PLoS One.* Feb 19;9(2):e89037

Desikan RS, Thompson WK, Holland D, Hess CP, **Brewer JB**, Zetterberg H, Blennow K, Andreassen OA, McEvoy LK, Hyman BT, Dale AM; Alzheimer's Disease Neuroimaging Initiative Group. (2014) The role of clusterin in amyloid- β -associated neurodegeneration. *JAMA Neurol.* Feb;71(2):180-7

Rafii MS, Taylor CS, Kim HT, Desikan RS, Fleisher AS, Katibian D, **Brewer JB**, Dale AM, Aisen PS. (2014) Neuropsychiatric symptoms and regional neocortical atrophy in mild cognitive impairment and Alzheimer's disease. *Am J Alzheimers Dis Other Dement.* Mar;29(2):159-65.

Desikan RS, Thompson WK, Holland D, Hess CP, **Brewer JB**, Zetterberg H, Blennow K, Andreassen OA, McEvoy LK, Hyman BT, Dale AM; Alzheimer's Disease Neuroimaging Initiative. (2013) Heart fatty acid binding protein and A β -associated Alzheimer's neurodegeneration. *Mol Neurodegener.* Oct 2;8:39.

Reas ET, **Brewer JB**. (2013) Effortful retrieval reduces hippocampal activity and impairs incidental encoding. *Hippocampus.* May 23(5):367-79.

Reas ET, **Brewer JB** (2013) Imbalance of incidental encoding across tasks:

An explanation for non-memory-related hippocampal activations *Journal of Experimental Psychology*

Desikan RS, Rafii MS, **Brewer JB**, Hess CP (equal contribution) (2013) An expanded role for neuroimaging in the evaluation of memory impairment *Am J Neuroradiol*

Brewer JB, Sepulcre J and Johnson KA, Part VII: Dementias, Structural, Functional, and Molecular Neuroimaging Biomarkers for Alzheimer's Disease In Eric Nestler and David Holtzman (eds) *The Neurobiology of Mental Illness*; New York: Oxford University Press.

McEvoy, LK and **Brewer JB** (2012) Biomarkers for the clinical evaluation of cognitively impaired elderly: Amyloid is not enough. *Imaging Med* 4(3), 343-357.

Desikan RS, McEvoy LK, Holland D, Thompson WK, **Brewer JB**, Aisen PS, Andreassen OA, Hyman BT, Sperling RA, Dale AM; for the Alzheimer's Disease Neuroimaging Initiative (2012) *Am J Neuroradiol* Sept 13 Epub ahead of print.

Desikan RS, McEvoy LK, Thompson WK, Holland D, **Brewer JB**, Aisen PS, Sperling RA, Dale AM (2012) Amyloid Beta-associated clinical decline occurs only in the presence of elevated P-tau. *Arch Neurol* 69 (6), 709-713.

Hales JB and **Brewer JB** (2012) The path to memory is guided by strategy: distinct networks are engaged in associative encoding under visual and verbal strategy and influence memory performance in healthy and impaired individuals. *J Cogn Neuro* 24(6), 1398-1410.

Seibert TM, Murphy EA, Kaestner EA, **Brewer JB** (2012) Interregional correlations in Parkinson disease and Parkinson-related dementias with resting functional MR imaging. *Radiology* 263(1), 226-234.

Reas ET, Gimbel SI, Hales JB, **Brewer JB** (2012) Search-related suppression of hippocampus and default network activity during associative memory retrieval *Front Hum Neurosci* 5, 112. Epub 2011 Oct 30.

Murphy EA, Roddey JC, McEvoy LK, Holland D, Hagler DJ Jr, Dale AM, **Brewer JB** and the Alzheimer's Disease Neuroimaging Initiative (2012) CETP polymorphisms associate with brain structure, atrophy rate, and Alzheimer's disease risk in an APOE dependent manner. *Brain Imaging and Behavior* 6 (1), 16-26.

Seibert TM, Majid DS, Aron AR, Corey-Bloom J, **Brewer JB** (2011) Stability of resting fMRI interregional correlations analyzed in subject-native space: A one-year longitudinal study in healthy adults and premanifest Huntington's disease. *Neuroimage* (Epub ahead of print)

Heister D, **Brewer JB**, Magda S, Blennow K, McEvoy LK, for the

Alzheimer's Disease Neuroimaging Initiative (2011) Predicting MCI outcome with clinically available MRI and CSF biomarkers. *Neurology* 77(17):1619-28.

Holland D, Roddey JC, Blennow K, Aisen PS, **Brewer JB**, Hyman BT and Dale AM for the Alzheimer's Disease Neuroimaging Initiative (2011) Amyloid-beta associated volume loss occurs only in the presence of phosphor-tau. *Annals of Neurology* 70(4):657-61.

Seibert TM, **Brewer JB** (2011) Default network correlations analyzed on native surfaces. *J Neurosci Methods* 198 (2) 301-311.

McEvoy LK, Holland D, Hagler DJ Jr, Fennema-Notestine C, **Brewer JB**, Dale AM for the Alzheimer's Disease Neuroimaging Initiative (2011) Mild cognitive impairment: Baseline and longitudinal structural MR imaging measures improve predictive prognosis. *Radiology* 259(3):834-43.

Gimbel SI, **Brewer JB**. (2011) Reaction time, memory strength, and fMRI activity during memory retrieval: Hippocampus and default network are differentially responsive during recollection and familiarity judgments. *Cognitive Neuroscience* 2(1):19-23

Pitts MA, Martinez A, **Brewer JB**, Hillyard SA (2011) Early stages of figure-ground segregation during perception of the face-vase. *Journal of Cognitive Neuroscience*. 23(4):880-95

Rafii, MS, **Brewer JB** (2010) Functional brain imaging in the clinical assessment of consciousness. *PLoS Biology*.8(11):e10000548

McEvoy LK, **Brewer JB** (2010) Quantitative structural MRI for early detection of Alzheimer's disease. *Expert Review of Neurotherapeutics*. 10(11):1675-88.

Hales JB, **Brewer JB**. (2010) Activity in the hippocampus and neocortical working memory regions predicts successful associative memory for temporally discontinuous events. *Neuropsychologia* 48(11):3351-9.

Murphy EA, Holland D, Donohue M, Hagler DJ Jr., Dale AM, **Brewer JB**, and The Alzheimer's Disease Neuroimaging Initiative. (2010) Six-Month Neuroanatomical Change in MTL Structures is Associated with Subsequent Memory Decline in Elderly Controls *NeuroImage* 53(4):1310-7.

Karow DS, McEvoy LK, Hoh CK, Fennema-Notestine C, Hagler DJ, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative. (2010) Relative capability of MR imaging and FDG PET to depict changes associated with prodromal and early Alzheimer disease *Radiology* 256(3):932-42.

McEvoy LK, Edland SD, Hagler DJ, Holland D, Roddey JC, Fennema-Notestine C, Salmon D, Koyama AK, Aisen PS, **Brewer JB**, Dale AM; for the Alzheimer's Disease Neuroimaging Initiative (2010) Neuroimaging

enrichment strategy for secondary prevention trials in Alzheimer's disease. *Alzheimer's Disease and Associated Dementias* 24(3):269-77.

Seibert TS, Hagler DJ, **Brewer JB** (2010) Early parietal response in episodic retrieval revealed with MEG *Human Brain Mapping* Epub ahead of print

Fjell AM, Walhovd KB, Fennema-Notestine C, McEvoy LK, Hagler DJ, Holland D, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative (2010) CSF Biomarkers in prediction of cerebral and clinical change in mild cognitive impairment and Alzheimer's disease *Journal of Neuroscience* 30:2088-101.

Walhovd KB, Fjell AM, **Brewer JB**, McEvoy LK, Fennema-Notestine C, Hagler DJ Jr, Karow D, Dale AM (2010) Combining MRI, PET and CSF biomarkers in diagnosis and prognosis of Alzheimer's disease *American Journal of Neuroradiology* 31:347-54.

Fjell AM, Walhovd KB, Fennema-Notestine C, McEvoy LK, Hagler DJ, Holland D, Blennow K, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative (2010) Brain atrophy in healthy aging is related to CSF levels of Abeta1-42. *Cerebral Cortex* 20(9):2069-79

Walhovd KB, Fjell AM, Dale AM, McEvoy LK, **Brewer J**, Karow DS, Salmon DP, Fennema-Notestine C; the Alzheimer's Disease Neuroimaging Initiative. (2010) Multi-modal imaging predicts memory performance in normal aging and cognitive decline. *Neurobiology of Aging*. 31(7):1107-21

Holland D, **Brewer JB**, Hagler DJ, Fennema-Notestine C, Dale AM, and the Alzheimer's Disease Neuroimaging Initiative (2009). Subregional neuroanatomical change as a biomarker for Alzheimer's disease progression. *Proceedings of the National Academy of Science*, Epub ahead of print

Fjell AM, Walhovd KB, Fennema-Notestine C, McEvoy LK, Hagler D, Holland D, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative (2009) One year brain atrophy evident in healthy aging. *Journal of Neuroscience* 29:15223-31.

Fleisher AS, Donohue M, Chen K, **Brewer JB**, Aisen PS and the Alzheimer's Disease Neuroimaging Initiative (2009) Applications of neuroimaging to disease modification trials in Alzheimer's disease. *Behavioural Neurology* 21:129-36

Brewer JB. (2009) Fully-automated volumetric MRI with normative ranges: translation to clinical practice. *Behavioural Neurology* 2009:21 21-8.

McDonald CR, Mcevoy LK, Gharapetian L, Fennema-Notestine C, Hagler DJ Jr., Holland D, Koyama A, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative (2009) Regional rates of neocortical atrophy from normal aging to early Alzheimer's disease. *Neurology*

73:457-465.

Israel SL, Seibert TM, Black ML, **Brewer JB** (2009). Going their separate ways: Dissociation of frontal and hippocampal activity during memory recollection and post-retrieval processing. *Journal of Cognitive Neuroscience* Mar 20, Epub ahead of print

Kovacevic S, Rafii MS, **Brewer JB** (2009) Fully-automated volumetry predicts decline in MMSE and CDR in patients with mild cognitive impairment *Alzheimer's Disease and Associated Dementias*, 23:139-145.

McEvoy LK, Fennema-Notestine C, Roddey JC, Hagler DJ, Holland DJ, Karow DS, Pung CJ, **Brewer JB**, Dale AM, and the Alzheimer's Disease Neuroimaging Initiative (2009). Quantitative structural neuroimaging detects Alzheimer's disease and predicts clinical and anatomical change in mild cognitive impairment: Initial results from the Alzheimer's Disease Neuroimaging Initiative. *Radiology* 251:195-205.

Brewer JB, Magda S, Airress C, Smith ME (2009) Fully-automated volumetry for assessment of focal atrophy in Alzheimer's disease. *American Journal of Neuroradiology* 3:578-80.

Hales JB, Israel SL, Swann NC, **Brewer JB**. (2009) Dissociation of frontal and medial temporal lobe activity in maintenance and binding of sequentially presented paired associates. *Journal of Cognitive Neuroscience*, 7, 1244-1254.

Brewer JB, Gabrieli JDE, Vaidya CJ, Preston A, Rosen A. Memory. In CG Goetz & EJ Pappert (Eds) Textbook of Clinical Neurology. 2007; (pp. 63-79). Philadelphia: W.B. Saunders Company.

Gold JJ, Smith CN, Bayley PJ, Shrager Y, **Brewer JB**, Stark CEL, Hopkins RO, Squire LR. (2006). Item memory, source memory, and the medial temporal lobe: Concordant findings from fMRI and memory-impaired patients. *Proceedings of the National Academy of Science*, 103, 9351-9356.

Brewer JB, Moghekar A. (2002). Imaging the medial temporal lobe: exploring new dimensions. *Trends in Cognitive Science*, 6, 217-223.

Golby AJ, Poldrack RA, **Brewer JB**, Spencer D, Desmond JE, Aron A P, Gabrieli JDE. (2001). Material-specific lateralization in the medial temporal lobe and prefrontal cortex during memory encoding. *Brain*, 124, 1841-1854.

Canli T, Zhao Z, **Brewer JB**, Gabrieli JD, Cahill L. (2000). Event-related activation in the human amygdala associates with later memory for individual emotional experience. *Journal of Neuroscience*. 20, RC99

Gabrieli JDE, **Brewer JB**, Vaidya CJ. (1999). Memory. In CG Goetz & EJ Pappert (Eds) Textbook of Clinical Neurology. (pp 56-69). Philadelphia: W.B. Saunders Company.

Fernandez G, **Brewer JB**, Zhao Z, Glover GH, Gabrieli JD. (1999). Level of sustained entorhinal activity at study correlates with subsequent cued-recall performance: a functional magnetic resonance imaging study with high acquisition rate. *Hippocampus*, 9, 35-44.

Gabrieli JDE, **Brewer JB**, Poldrack RA (1998). Images of medial temporal lobe function in human learning and memory. *Neurobiology of Learning and Memory*, 70, 275-283.

Brewer JB, Zhao Z, Desmond JE, Glover GH, Gabrieli JD (1998). Making Memories: brain activity that predicts how well visual experience will be remembered. *Science*, 281, 1185-1187.

Brewer JB, Gabrieli JD (1997). Focusing in on the medial temporal lobe. *Molecular Psychiatry*, 2, 427-431.

Gabrieli JDE, **Brewer JB**, Desmond JE, Glover GH (1997). Separate neural bases of two fundamental memory processes in the human medial temporal lobe. *Science*, 276, 264-266.

Kozikowski AP, Ma D, **Brewer J**, Sun S, Costa E, Romeo E, Guidotti A (1993). Chemistry, binding affinities, and behavioral properties of a new class of “antineophobic” mitochondrial DBI receptor complex (mDRC) ligands. *Journal of Medicinal Chemistry*, 36, 2908-2920.

CONVENTION PRESENTATIONS

SELECTED PAPERS PRESENTED

Seibert TM, Hagler, DJ, **Brewer JB**. Early parietal response in episodic retrieval revealed with MEG. Presented at the 15th Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, USA, June 18-23, 2009

Brewer JB, McEvoy LK, Holland D, Hagler DJ Jr., Fjell A, Walhovd K, Fennema-Notestine C, Anders Dale and the Alzheimer’s Disease Neuroimaging Initiative. “MR Volumetry and Measures of Subregional Change: Preliminary Results from ADNI” Paper presented at the Annual Meeting of the American Academy of Neurology. Seattle, Washington, USA, April 25-30, 2009.

Brewer JB, Zhao Z, Glover GH, Gabrieli JDE. Parahippocampal responses to single events predict whether those events are remembered or forgotten. Paper presented at the 28th Annual Meeting of the Society for Neuroscience, Los Angeles, California, USA, November 7-12, 1998. Society for Neuroscience Abstracts, 1998, 24, no.1-2, p. 761.

Brewer JB, Desmond JE, Glover GH, Gabrieli JDE. Parahippocampal cortex involvement in the encoding of both visual and auditory stimuli: an fMRI study. Paper presented at the 27th Annual Meeting of the Society for Neuroscience, New Orleans, Louisiana, USA, October 25-30, 1997.

Society for Neuroscience Abstracts, 1997, 23, no. 1-2, p. 566.

Brewer JB, Desmond JE, Glover GH, Gabrieli JDE. Dissociation of medial temporal lobe structures involved in encoding and retrieval: an fMRI study. Paper presented at the 26th Annual Meeting of the Society for Neuroscience, Washington, D.C., USA, November 16-21, 1996. Society for Neuroscience Abstracts, 1996, 22, no. 1-3, p. 1450.

SELECTED POSTERS PRESENTED

Relkin N, Moore M, Tsakanikas D, **Brewer J** Intravenous immunoglobulin treatment decreases rates of ventricular enlargement and cognitive decline in Alzheimer's disease. Presented at the 62nd Annual Meeting of the American Academy of Neurology, Toronto, Canada April 10-17, 2010

Hales JB, **Brewer JB**. Successful encoding of item-based and association-based information is dissociated along the posterior to anterior axis of the parahippocampal gyrus. Presented at the 38th Annual Meeting of the Society for Neuroscience, Washington, D.C., USA, November 15-19, 2008. Society for Neuroscience Abstracts

Israel SL, **Brewer JB**. Modulation of dorsolateral prefrontal and parahippocampal activity during memory suppression, retrieval, and retrieval with elaboration.. Presented at the 38th Annual Meeting of the Society for Neuroscience, Washington, D.C., USA, November 15-19, 2008. Society for Neuroscience Abstracts.

Brewer JB, Holland D, Fennema-Notestine, C, Dale, AM and the Alzheimer's Disease Neuroimaging Initiative. Brain structure change is associated with clinical decline of elderly controls: A longitudinal study using the ADNI dataset. International Conference on Alzheimer's Disease, Chicago, IL. July 27-31st. ICAD 2008 Abstracts

Israel SL, Black ML, Siebert TM, **Brewer JB**. BOLD signal decreases in the hippocampus during semantic processing of recollected items. Poster presented at the 37th Annual Meeting of the Society for Neuroscience, San Diego, CA, USA, November 3-7, 2007. Society for Neuroscience Abstracts

Davis JB, Swann NC, Israel SL, **Brewer JB**. Medial-temporal-lobe contribution to associative memory formation: examination of bold response during association of sequentially presented items. Poster presented at the 37th Annual Meeting of the Society for Neuroscience, San Diego, CA, USA, November 3-7, 2007. Society for Neuroscience Abstracts.

Seibert TM, Huang M, Discenza C, **Brewer JB**. Spatio-temporal dynamics of paired associate retrieval: an MEG study. Poster presented at the 36th Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, USA, October 14-18, 2006. Society for Neuroscience Abstracts.

Hamstra J, **Brewer JB**. Medial-temporal-lobe activity associated with subsequently confident and successful stem-cued recall for groups of

words. Poster presented at the 12th Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy, June 11-15, 2006. *NeuroImage* Special Issue 12th Annual Meeting of the Organization for Human Brain Mapping, p. S184

Golby AJ, Poldrack RA, Illes J, **Brewer JB**, Shuer, LM, Chen DR, Desmond JE, Gabrieli JDE. Novelty-associated mesial temporal lobe activation during memory encoding in patients with mesial temporal lobe epilepsy. Poster presented at the 30th Annual Meeting of the Society for Neuroscience, New Orleans, Louisiana, USA, November 4-9, 2000. Society for Neuroscience Abstracts, 26, no. 1, p. 463.

Golby AJ, Poldrack RA, **Brewer JB**, Spencer D, Gabrieli JDE. Material-specific lateralization of memory encoding processes in the medial temporal lobe. Poster presented at the 29th Annual Meeting of the Society for Neuroscience, Miami, Florida, USA, October 1999. Society for Neuroscience Abstracts, 25, no. 1, p. 646.

Brewer JB, Zhao Z, Desmond JE, Fine EM, Gabrieli JDE. Human perirhinal cortex participates in associative encoding. Poster presented at the 29th Annual Meeting of the Society for Neuroscience, Miami, Florida, USA, October 1999. Society for Neuroscience Abstracts, 25, no. 1, p. 647.

Brewer JB, Zhao Z, Marling TS, Desmond JE, Glover GH, Gabrieli JDE. Event-related fMRI of medial temporal lobe involvement in declarative memory formation. Poster presented at the 5th Annual Meeting of the Society for Cognitive Neuroscience, San Francisco, California, USA, April 5-7, 1998. Cognitive Neuroscience Society 1998 Annual Meeting Abstract Program, p. 121.

Brewer JB, Zhao Z, Marling TS, Desmond JE, Glover GH, Gabrieli JDE. Averaged single trial fMRI of medial temporal lobe involvement in declarative memory formation. Poster presented at the 6th Conference on the Neurobiology of Learning and Memory, Irvine, California, USA, October 21-24, 1997.

Miller S, **Brewer J**, Tarara J, Schmalz P, Szurszewski JH. 3-D reconstruction of abdominal prevertebral ganglion neurons. Poster presented at the Digestive Disease Week and the 93rd Annual Meeting of the American Gastroenterological Association, San Francisco, California, USA, May 9-15, 1992, 102, no. 4 part 2, p. A486.

Miller S, Tarara J, **Brewer J**, Ma R, Schmalz P, Szurszewski JH. 3-D imaging of lucifer yellow filled sympathetic and parasympathetic neurons. Poster presented at the 1992 Meeting of the Federation of American Societies for Experimental Biology (FASEB), Anaheim, California, USA, April 5-9, 1992. FASEB Journal, 1992, 6, no. 4, p. A956.

INVITED TALKS (SELECTED)

Evidence Based Medicine Debates, Powered4Significance Panel on the use

of Imaging Biomarkers in the evaluation of Alzheimer's Disease. 2012

Invited Speaker Series, University of Wisconsin ADRC 2011

Grand Rounds UCSF Memory and Aging Program 2011

American Society for Neuroradiology, Neuroscience Education Research Foundation Lecture and Session Moderator, "Clinical and Structural Evaluation of the Memory-Impaired Patient" Vancouver, BC, May 17, 2009

American Academy of Neurology- Society for Behavioral and Cognitive Neurology Dinner Lecture: "Toward an MR diagnosis of Alzheimer's disease: Quantitative Neuroimaging" Seattle, April 29, 2009

Japan Epilepsy Society Meeting Invited Lecture," Memory and Epilepsy" Tokyo, Japan, October 2008

Japan Epilepsy Society Meeting Invited Lecture," Diffusion Tensor Imaging" Tokyo, Japan, October 2008

Alzheimer's Disease Cooperative Study Steering Committee Lecture: "Sharing imaging and clinical data from ADCS clinical trials" Salt Lake City, April 2008

UCSD Connect Presentation, "MRI Assessment of Subregional Change in the Brain" San Diego, August 2008

Spring Brain Conference Address, "Quantitative Neuroimaging: Toward an MR Diagnosis of Alzheimer's Disease" Palm Springs, March 16th, 2009

Ruben H. Fleet Science Center, Featured Speaker, "Aging for All Ages" San Diego, July 2006

Merck Neuroscience Series, "Functional Imaging of the Medial temporal Lobe" October 4th, 2004

University of California, Irvine, Grand Rounds Address, "Functional Imaging of the Medial Temporal Lobe" January 14th, 2004

New York Medical College, Grand Rounds Address, "Advances in Functional Brain Imaging" June 13th, 2000.

MEDIA COVERAGE

Work featured in Scientific American, Psychology Today, Discovery Channel News, Discover Magazine, Los Angeles Times, and New York Times. Interviews given for BBC, CNN, CBS Evening News, Lancet Journal and National Public Radio Science Friday.

COMMUNITY, ADMINISTRATIVE, AND ORGANIZATIONAL ACTIVITIES

2008-present	Executive Steering Committee- UCSD ADRC
2007-present	Executive Steering Committee Keck Center for Functional MRI
2006-present	Co-Director UCSD Radiology at La Jolla Research Program
2004-present	Co-Director Neurology Residents' Clinic
2003-2004	Johns Hopkins Inpatient Neurosciences Work Group
2002-2004	Computer and networking resource for Johns Hopkins residency program:
1996	Founding member of the Stanford Papua New Guinea Project:
1995	SMILE project: Organized and taught classes to Cal. high school students allowing hands-on experience with neuroanatomy and neuroscience.

GRANTS AWARDED

Functional Imaging of the Medial Temporal Lobe	Fidelity Foundation	\$90,000	10/2004-10/2005	PI
MTL Structure and Function in MCI and AD	Johns Hopkins Department of Medicine	\$325,000	7/2004-6/2006	PI
MRI Studies of MTL Structure and Function in MCI and AD	National Institutes of Neurological Diseases and Stroke	\$879,934	12/2004-11/2009	PI
High-Resolution MRI of Medial Temporal Lobe Structure and Function	General Electric Medical Foundation	\$265,682	4/2007-4/2010	PI
The Alzheimer's Disease Neuroimaging Initiative	National Institutes of Health	\$317,846	7/2004-8/2010	Site PI
A phase III study of the effectiveness of Bapineuzumab for the treatment of Alzheimer's disease	Elan Pharmaceutic.	\$593,460	2/2009-2/2012	Site PI
The Alzheimer's Disease Cooperative Study	National Institute on Aging	\$400,000	4/2009-4/2017	Core Leader

Clinical Studies of NSAIDs as Gamma Secretase Modulators in AD Project 3 MRI core	National Institute on Aging	\$60,000	6/2009-6/2014	Project 3 MRI Core Leader PI- Eddie Koo
Differentiating dementia with Lewy bodies from Alzheimer's disease using quantitative imaging	National Institute on Aging	\$663,642	6/2009-6/2014	PI (Project 1)
Multimodal MRI Studies of Brain Structure and Function in PDD and AD	National Institutes of Neurological Diseases and Stroke	\$880,560	11/2009-11/2015	PI
Sharing ADCS Imaging and Clinical Data through BIRN	National Institute on Aging	\$1,000,000	8/2011-8/2015	PI

Core leader on 5 additional NIH and industry grants funded through the next 3-5 years.

Dr. David S. Geldmacher

CURRICULUM VITAE
DAVID S. GELDMACHER, MD, FACP

Date: October 31, 2016

PERSONAL INFORMATION

Name: David Stephen Geldmacher
Citizenship: US
Foreign Language(s): none

RANK/TITLES

Patsy and Charles Collat Endowed Professor in Neuroscience
Professor of Neurology
Professor of Neurobiology
Director, Division of Memory Disorders and Behavioral Neurology
Senior Scientist appointments:
Alzheimer's Disease Center
Center for Aging
Center for Neurodegeneration and Experimental Therapeutics
McKnight Brain Research Institute
Vision Science Research Center

Rank: Professor (with tenure)
Primary Department: Neurology
Professional Address:
University of Alabama at Birmingham
1720 7th Avenue South, Sparks Center 620A,
Birmingham, AL 35294-0017
Phone 205-996-3679
Fax 205-975-7365.

HOSPITAL AND OTHER (NON ACADEMIC) APPOINTMENTS:

2012-present Medical Director (Neurology) -UAB Hospital
2011-present Medical Staff (Admitting and Consulting) - UAB Medical Center

PROFESSIONAL CONSULTANTSHIP:

2007-2011 *Ad hoc* Consultant, Peripheral & Central Nervous System Drugs Advisory
Committee, US Food and Drug Administration,

EDUCATION:

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
09/1982-	M.D.	State University of New York:
05/1986	(with Certificate in Academic Research)	Health Science Center at Syracuse, Syracuse, New York

09/1978-	BA	University of Rochester
05/1982	(<i>magna cum laude</i>)	Rochester, New York

MILITARY SERVICE: None

LICENSURE: Alabama, license# MD.32204
 NPI: 1174692701
 UPIN: E86577
 DEA registration (details upon request)
 Alabama Controlled Substance Certificate (details upon request)
 Virginia, # 0101232688
 Ohio # 35-05-8049 (inactive)
 New Jersey (inactive)

BOARD CERTIFICATION:

American Board of Psychiatry and Neurology,
 Certificate number 36574, November 1992 (lifetime certification)

Diplomate, National Board of Medical Examiners
 Diploma number 330492, June 1987

POSTDOCTORAL TRAINING:

<u>Year</u>	<u>Training</u>	<u>Institution</u>
07/1986- 06/1987	PGY-1 Internal Medicine	Mt. Sinai Medical Center Cleveland, Ohio
07/1987- 06/1990	Residency-Neurology	Case Western Reserve University Cleveland, Ohio
07/1990- 06/1991	Postdoctoral Fellowship Behavioral Neurology	University of Florida Gainesville, Florida

ACADEMIC APPOINTMENTS: (In reverse chronological order)

<u>Year</u>	<u>Rank/Title</u>	<u>Institution</u>
4/2014- present	Patsy and Charles Collat Endowed Professor in Neuroscience	University of Alabama at Birmingham
3/2011- present	Professor of Neurology (tenured) Professor of Neurobiology	“
3/2011 –	Patsy and Charles Collat Endowed	“

3/2014	Scholar in Neuroscience	
11/2006- 2/2011	Harrison Distinguished Teaching Associate Professor of Neurology (without term)	University of Virginia School of Medicine
7/ 2002- 10/2006	Associate Professor of Neurology (without term)	“
7/2001- 6/2002	Associate Professor of Neurology	Case Western Reserve University
01/1993- 06/2001	Assistant Professor of Neurology	“
07/1991- 12/1992	Assistant Professor of Neurology	Robert Wood Johnson School of Medicine, University of Medicine and Dentistry of New Jersey

AWARDS/HONORS:**Honors**

2015	Alpha Omega Alpha Medical Honors Society, Inductee
2014	Who's Who in the World Selection
2014-current	America's Top Doctors Selection, Castle-Connolly, Inc.
2013	Appointment to Fellow, American Neurological Association
2011-current	Best Doctors listing, <i>Birmingham</i> magazine
2008	Election to Fellow, American College of Physicians
2006	Election to membership, American Neurological Association
2006	Leading Health Professionals of the World, Selection
2005	Appointment to Academy of Distinguished Educators, University of Virginia School of Medicine
2002-current	The Best Doctors in America Selection
1998	The Best Doctors in America Selection, Woodward/White, Inc.
1998	Top Doctors Listing, <i>Cleveland</i> Magazine
1982	Phi Beta Kappa, Inductee
1978-82	National Merit Scholar
1978-82	New York State Regents' Scholar
1978	Valedictorian, Southside HS, Elmira, NY

Awards

2012	Residency Teaching Award Department of Neurology University of Alabama-Birmingham
2003	Residency Teaching Award

Department of Neurology
University of Virginia

2001 Award for Achievement: Science and Technology Division
Northern Ohio Live Magazine Annual Awards

1995 Monitors' Choice Award – Best Overall Clinical Trials Site
(Trial E2020-A-01-301), Eisai America, Inc.

1985 Merck Medical Student Achievement Award
SUNY-HSC, Syracuse

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

American Academy of Neurology (1988-current)
Sections: Behavioral Neurology, Geriatric Neurology, Neurorehabilitation

American College of Physicians (2008-current)

American Neurological Association (2006-current)

Medical Association of the State of Alabama (2013-current)

American Society of Neurorehabilitation (1992-2006)

Association of University Professors of Neurology (2006-2010)

Consortium of Neurology Clerkship Directors (2005-2010)

Virginia Neurological Society (2003-2010)

COUNCILS AND COMMITTEES

Scientific Grant Reviewer

2012 Special Emphasis Panel, NIA 2012 ZAG1 ZIJ-7 ADCS
(Alzheimer's Disease Cooperative Study-primary reviewer Project 3)

2010 Special Emphasis Panel, NIA 2010/05 ZAG1-ZIJ-5 (M2) ADNI2
(Alzheimer's Disease Neuroimaging Initiative-primary reviewer for two
cores)

2006 NIH-Rapid Access to Interventional Drugs (RAID) Program Pilot Review
Panel National Institutes of Health, Bethesda MD

2005 Special Emphasis Panel, NINDS (ZNS-1 SRB-P Executive
Function) National Institutes of Health, Bethesda MD

2004 Scientific reviewer, Pilot Grants Program University of Virginia Institute on
Aging

2003 Special Emphasis Panel, Brain Disorders and Clinical Neuroscience (ZRG-1
DBD 10B Behavioral Neurosciences SBIR) National Institutes of Health,
Bethesda MD

1999-2010 Scientific reviewer, Institute for the Study of Aging, New York

1995-2002 Scientific reviewer, Case Western Reserve University Alzheimer's Disease
Research Center Pilot Grant Program

1994 Scientific reviewer, Claude D. Pepper Center, Pilot Grant Program, Case
Western Reserve University

UNIVERSITY ACTIVITIES:

A. University of Alabama-Birmingham, Birmingham, Alabama

1. University of Alabama School of Medicine
2013-2015 Member, Faculty Council
2. UAB Hospital

- 2014 Chief of Staff's Delirium Task Force
- 3. Department of Neurology
 - 2016-present Chair, Departmental Promotions & Tenure Committee
 - 2014-2015 Chair, Stroke Division Director Search Committee
 - 2012-present Member, Research Oversight Committee
 - 2011-present Member, Departmental Promotions & Tenure Committee
 - 2011-2013 Member, Ackerman/Warren Professor Search Committee
- 4. Department of Psychiatry and Behavioral Neuroscience
 - 2015-present Member, Geriatric Psychiatry Search Committee
- 5. McKnight Brain Institute
 - 2011-2012 Member, Cognitive Battery Development Working Group

B. University of Virginia, Charlottesville, Virginia

- 1. Institute on Aging
 - 2004-2011 Member, Advisory Board
- 2. School of Medicine:
 - 2006-2011 Chair, Academic Standards and Achievement Committee
 - 2005-2011 Member, Clinical Medicine Committee
- 3. Medical Center
 - 2003-2009 Medical Director, Fontaine Adult Neurology Clinic
 - 2007 Ambulatory Services Guidelines/Blueprint work group
- 4. Health Services Foundation
 - 2008-2011 Physicians Advisory Council on Contracting
- 5. Department of Neurology:
 - 2006 Electronic Record Implementation Group
 - 2006-2011 Undergraduate Medical Education Committee (Chair)
 - 2004-2011 Resident Education Committee
 - 2003-2009 Neurology Ambulatory Services Team Committee

**C. Case Western Reserve University/University Hospitals of Cleveland
Cleveland, Ohio**

- 1. Alzheimer Center/Memory and Aging Center
 - 1999-2002 Internal Advisory Committee, Alzheimer Center
 - 1994 Co-Chair, Investigator Interface Task Force,
- 2. Department of Neurology
 - 1996-98 Computerized Medical Record Committee
 - 1994-98 Chairman, Committee on Equity in Professional Affairs
- 3. University Hospitals of Cleveland
 - 1996 Rehabilitation Unit Advisory Committee
 - 1995-99 Faculty, Fellowship for Journalists in Biomedical Research
 - 1993-2002 ElderHealth Center Medical Management Committee
 - 1993-95 Chair, Stroke Extended Care Path Development Committee
 - 1993 Residency Review Committee, Department of Neurology
 - 1993 ElderHealth Care Task Force
 - 1993 Geriatric Psychiatry Work Group

- D. Robert Wood Johnson University Hospital,
New Brunswick, New Jersey**
 1992 Chairman, Patient Care Committee, Neurology Service
 1992 Prognosis Committee

EDITORIAL BOARD MEMBERSHIPS:

- 2008-present Brain Injury, (Taylor and Francis, publisher)
 2007 Reviews in Neurological Diseases- Section Editor/Editorial Board
 (MedReviews, publisher)
 2006-2009 Dementia - Contributing Editor (Carma Publishing)
 2005-2007 Practical Neurology- Contributing Editor,
 (Avondale Medical, publisher)
 1994-2002 Alzheimer's Disease and Associated Disorders
 (Lippincott Williams & Wilkins, publisher)

MAJOR RESEARCH INTERESTS:

My research focuses primarily on treatment approaches for people with dementia. This includes investigator-initiated trials of novel drugs through typical federal- and industry-sponsored multicenter studies. I serve on steering and publication committees for these trials. Additionally, I have been developing an alternative model of assessing treatment success in dementia care known as "Family Quality of Life."

TEACHING EXPERIENCE:**A. Scholarly presentations****1. University of Alabama – Birmingham****A. Neurology Grand Rounds**

- 9-13-2011 – Short- and Long-Term Targets for Alzheimer Prevention"
 10-1-2013 - Developing excellence in teaching for faculty and residents:
 How to be the teacher everyone wants to have
 6-9-2015 - Driving in Dementia: The Doctors' Dilemma
 9-27-2016 – Cognition in Parkinson's disease and related disorders

B. Grand Rounds – Other Departments**a. Geriatrics/Gerontology**

- 6-30-2011 – Embroilments, Evidence, and Expectations in Alzheimer's
 Disease
 5-10-2012 – The Exasperating Experiences of Mrs. P – Case Study in
 Dementia
 6-10-2013 – The Confusing Case of Mrs. C – Visual Dysfunction in
 Neurodegenerative disease
 9-6-2014 - Developing excellence in teaching for faculty and residents:
 How to be the teacher everyone wants to have

b. Endocrinology

- 4-20-14 Hashimoto's Encephalopathy

c. Pediatrics

- 7-3-14 Developing excellence in teaching for faculty and residents:
 How to be the teacher everyone wants to have

C. Behavioral Neurology/Neuropsychology Noon Conference

- 6-28-2011 Using Patient and Family Centered Outcomes to Optimize Dementia Care
- 4-24-2012 Development of the 'Alabama Brief Cognitive screen' (ABC)
- 1-22-2013 Information Flow in Cerebral Cortex: Implications for Localization of Cognitive Function
- 5-28-2013 The New Alphabet Soup of Dementia Diagnosis: ICD-10 and DSM-5
- 9-23-2014 Alzheimer's Risk Assessment and Intervention Clinic (ARAIC)
- 4/28/2015 Driving and Dementia: The Doctor's Dilemma
- 6/23/2015 Neurodegenerative Dementia Prodromes

2. University of Virginia School of Medicine

A. Neurology Grand Rounds

- 2-11-2011 – "Was Wernicke Wrong? – Electrocorticography and aphasia"
- 3-26-2010 – "Can Alzheimer's disease be prevented"
- 7-10-2009 – "Treatment of behavioral symptoms in dementia"
- 8-22-2008 – "Interdisciplinary Care in Dementia"
- 3-10-2008 - "The Anatomic basis of Executive Function"
- 11-9-2007 – "Exploring the Diabetes-Dementia Link"
- 10-27-2006 – "Aging, Women's Health, and Cognition"

B. Family Medicine Grand Rounds

- 8-10-2010 "Case Based approach to dementia"
- 1-15-2010 "Practical dementia care"

C. Psychiatry Grand Rounds

- 3-27-2007 – "Rational approach to behavioral symptoms in dementia"

D. Office of Graduate Medical Education Resident-as-Teacher program

- 5-23-2007 - Use of the Clinical Teaching Perception Inventory to enhance teaching skills."

3. School of Medicine Coursework**A. University of Alabama at Birmingham**

<i>Year</i>	<i>Course Title</i>	<i>Activity</i>	<i>No. of Students</i>	<i>Contact Hours</i>
2015-16	Medical Neuroscience	Small Group Leader	10	6
2015-16	GBS 729 Translational Approaches in Neurodegeneration	Lecture/Discussion Group	12	1.5
2015-16	GBS 790 Clinical Evaluation of Cognitive Disorders	Lecture/clinical precepting	8	9
2014-15	GBS 790 Clinical Evaluation of	Lecture/clinical precepting	7	22

2013-14	Cognitive Disorders GBS 790 Clinical Evaluation of Cognitive Disorders	Lecture/ clinical precepting	5	16
2012-13	GBS 790 Clinical Evaluation of Cognitive Disorders	Lecture/ clinical precepting	6	19
2012-13	Medical Neuroscience	Lecture: Cortical Integration	150	1

B. University of Virginia

<i>Year</i>	<i>Course Title</i>	<i>Activity</i>	<i>No. of Students</i>	<i>Contact Hours</i>
2010-11	Neurology Clerkship	Didactic Seminars	10-16	9 x 0.5
		Pretest review	10-16	9 x 1.5
2009-10	Neurology Clerkship	Didactic Seminars	10-16	12 x 0.5
		Pretest review	10-16	12 x 1.5
		Clinical skills teaching	5	1 x 1.5
	Practice of Medicine-2	Neurologic Exam Techniques	6	3
	Medical Neuroscience	Clinical Case Studies	35	2
2008-09	Neurology Clerkship	Didactic Seminars	12-15	8 x 0.5
		Pretest review	12-15	8 x 1.5
	Practice of Medicine-2	Neurologic Exam Techniques	8	3
		Neurology Cases	20	2 x 2
	Medical Neuroscience	Clinical Case Studies	35	2
2007-08	Practice of Medicine-2	Neurologic Exam Techniques	10	3
	Neurology Clerkship	Didactic Seminars	12-15	8 x 0.5
		Case Problem sets	12-15	1 x 1.5
		Pretest review	12-15	10 x 1
2006-7	Practice of Medicine-2	Neurologic Exam	12	3
	Neurology Clerkship	Didactic Seminars	16-20	5 x 0.5
		Case Problem sets	16-20	3 x 1.5
		Pretest review	16-20	10 x 1
2005-6	Practice of Medicine-2	Neurology Cases	20	2
	Neurology Clerkship	Didactic Seminars	16-20	5 x 0.5
		Case Problem Sets	16-20	4 x 1.5
		Pretest review	16-20	11 x 1

	Medical Neuroscience	Lecture-Laterality	140	1
2004-5	Practice of Medicine-2	Neurologic Exam Technique	12	3
		Neurology Cases	20	2
2003-4	Neurology Clerkship	Didactic seminars	12-15	3 x 0.5
2002-3	Practice of Medicine-2	Neurologic Exam Technique	8	3

4. Classroom Teaching (in Schools other than Medicine)

1. Guest Lecture: UAB Science and Technology Honors Program
Course STH299 'Mechanisms of Learning and Memory'
Title: *Alzheimer's disease*
16 undergraduates, 1.5 contact hours
Fall Term 2011-15
2. Guest Lecture: UAB Undergraduate Honors College
Course: HON321 "Neurology and Liberal Arts"
Title: *Implementing a reflective writing assignment in clinical training*
10 undergraduates, 1 contact hour
Spring Term 2011
3. Guest Lecture: UVa School of Nursing
Course GNUR550 "Pharmacology"
Title: *Treatment in Dementia: Evidence and Expectations*
30-40 Graduate Nursing Students, 1.5 contact hours
Spring term 2008-10
Summer Term 2008-10
4. Guest Lecture: Frances Payne Bolton School of Nursing, Case Western Reserve
Course NURS459 "Integrated Assessment."
Title: *4 D's: Differentiating Delirium, Dementia, and Depression*
40-60 Graduate Nursing Students, 2 contact hours
Spring term 1997-2002
5. Guest Lecture: Mandel School of Applied Social Sciences, CWRU
Course SASS547 "Problem Identification & Assessment/Diagnosis"
Title: *Practical Approaches to Dementia Recognition*
20-30 Graduate Nursing Students, 2 contact hours
Fall term 1999-2001
6. Guest Lecture: Graduate Program in Psychology CWRU
PSCL469 'Psychology of Aging'
Title: *Alzheimer's disease*
15 Graduate Students in Clinical Psychology, 2 contact hours
Fall term 1996

B. Clinical Teaching (Fellows, Residents, and Medical Students):

1. University of Alabama-Birmingham

- Inpatient (General Neurology and Stroke services)
 - 2-3 weeks per year
 - Learners (typical)
 - 3 Neurology residents (PGY-4 x1; PGY-2 x2)
 - 3 3rd year medical students
- Inpatient Neurology Consultation
 - 2-4 weeks per year
 - Learners (typical)
 - 2-3 Neurology residents (PGY-3 or 4)
 - 1 or 2 PGY 1 (Psychiatry, Internal medicine)
- Outpatient (Memory Disorders Specialty Clinic)
 - 24-80 ½ day teaching sessions per year
 - Learners (typical)
 - 1 Resident or Postdoctoral fellow
 - Residents: Neurology, Internal Medicine, Psychiatry
 - Fellows: Neurology, Geriatrics, Psychology
 - 1 medical student (MS-3 or MS-4)

2. University of Virginia Health System (2002-2011)

- Inpatient (General Neurology and Stroke services)
 - 4-8 weeks per year
 - Learners (typical)
 - 3 Neurology residents (PGY-4 x1; PGY-2 x2)
 - 2 PGY-1 (Internal Medicine, Psychiatry, PM & R)
 - 1 4th year medical student
 - 3 3rd year medical students
- Inpatient Neurology Consultation
 - 2-8 weeks per year
 - Learners (typical)
 - 1 Neurology resident (PGY-3 or 4)
 - 1 or 2 PGY 1 (Psychiatry, PM & R)
 - 3 3rd year medical students
- Outpatient (General Neurology)
 - Up to 40 ½ day sessions per year
 - Learners (typical)
 - 1-4 Neurology residents (all PG levels)
 - 2 3rd year medical students
- Outpatient (Memory Disorders Specialty Clinic)
 - 40-100 ½ day teaching sessions per year
 - Learners (typical)
 - 1 Resident or Postdoctoral fellow
 - Residents: Neurology, Family Medicine
 - Fellows: Neurology, Geriatrics, Gero-psychiatry

3. University Hospitals/Case Western Reserve University (1993-2002)

- Inpatient (General Neurology service)
 - 1-2 months per year
 - Learners (typical)
 - 5 Neurology residents (PGY-4 x1; PGY-2 x4)
 - 3 3rd year medical students
- Inpatient Neurology Consultation
 - 1-2 weeks per year
 - Learners (typical)
 - 1 Neurology resident (PGY-3 or 4)
- Outpatient (Dementia Specialty Clinic)
 - 25-100 ½ day teaching sessions per year
 - Learners (typical)
 - 1 Resident or Postdoctoral fellow
 - Residents: Neurology
 - Fellows: Neurology, Geriatrics, Gero-psychiatry

4. Robert W. Johnson University Hospital (1991-1992)

- Inpatient (General Neurology service)
 - 6 weeks per year
 - Learners (typical)
 - 5 Neurology residents (PGY-4 x1; PGY-2 x4)
 - 3 3rd year medical students

C. Postgraduate Medical Education/Teaching

1. University of Alabama-Birmingham

- a. Neurology Morning Report (2011-16)
 - Clinical case reviews
(12-16 sessions/year x 30 minutes/session)
- b. Neurology Residency Noon Lecture Series (2011-14)
 - Acute encephalopathy
 - Practical Dementia Differential Diagnosis
 - Anatomy of Executive Function
 - Evidence and expectations in dementia therapy
 - Neglect and Visuospatial Dysfunction
- c. Geriatric Medicine teaching sessions 2011-2014
 - Clinical Approach to Dementia
 - Evidence basis of dementia therapeutics
 - Update on dementia criteria

2. University of Virginia

- a. Neurology Acute Care Lecture Series
 - Acute Spinal Syndromes- 1 hour, presented annually 2003-2010
 - Change in mental state - 1 hour, presented annually 2005-2010
- b. Neurology Residency Noon Lecture Series (2003-2010)
 - 3-8 sessions annually, each 1 hour

Topics:

- Aphasia
 - Neglect
 - Anatomy of Executive Function
 - Mental State/Cognitive Exam
 - Dementia Differential Diagnosis
 - Documentation and Coding
 - Laterality
 - Behavioral neurology- approach to dementia
 - Working effectively with the pharmaceutical industry
- c. Neurology Residents Journal Club (2005 series)
3 1-hour sessions on dementia topics
- d. Physical Medicine and Rehabilitation resident conference
2 1-hour sessions in the 2007-08 series

Topics:

- Nontraumatic myelopathies
 - Self-Perception of teaching styles
- e. Postdoctoral Fellow Teaching
- Geriatrics Journal Club -
9-22-03 Delay to Nursing Home in AD
 - Geriatrics core curriculum conference
2-22-10 Evidence Basis of treatment in Alzheimer's disease
12-10-07 Emerging therapies in Alzheimer's disease
 - Joint Neuropsychology Postdoctoral Fellows conference
3-16-09 Posterior Cortical Atrophy Syndrome
3-4-08 Pharmacotherapy in Dementia
9-24-07 Neurological Approach to Dementia
8-20-07 Imaging in Dementia

MAJOR LECTURES AND VISITING PROFESSORSHIPS:

**A. Invited Presentations at Academic Medical Center Grand Rounds/Conferences
(Past 5 years)**

1. Neurology Grand Rounds, University of Miami Miller School of Medicine,
Miami FL, April 2014
Topic: Visual disorders and cognition in aging and neurodegeneration
2. Keynote Address (with Karen Rose, RN, PhD)
Tuskegee University School of Nursing Scholarly Conference
Tuskegee, AL, March 2012
Topic: Family Quality of Life in Dementia
3. *Artiss Powell, MD Memorial* invited lecture;
Robert Wood Johnson Medical School Neurology Grand Rounds
New Brunswick, NJ, December 2011
Topic: Visuospatial dysfunction in neurodegenerative disease

B. Visiting Professorships:

2014 University of Miami Miller School of Medicine, Department of Neurology

- Research Day. Miami FL
- 2011 Robert Wood Johnson Medical School, Department of Neurology,
New Brunswick, NJ
- 2010 Dalhousie University, Division of Geriatrics
- 2006 Case Western Reserve University, Department of Psychiatry, Cleveland, Ohio
- 2005 University of Texas-Southwestern/VAMC Geriatric Psychiatry, Dallas, TX
- 2003 Cleveland Clinic Foundation, Section on Geriatrics, Cleveland, OH
- 1999 University of Alabama-Birmingham, Alzheimer Center, Birmingham, AL
- 1996 University of Colorado, Center on Aging, Denver, CO
- 1994 Emory University, Geriatrics Center/Behavioral Neurology, Atlanta, GA

C. Invited Lectures (National and International, last 5 years)

(Local/regional lectures available upon request)

1. Cognition in Parkinson's Disease and Dementia with Lewy Bodies
Invited Lecture, Movement Disorders Society Young Neurologist's Course
Atlanta, Georgia, April 2016
2. Cognition in Parkinson's Disease
Invited Lecture, Movement Disorders Society Young Neurologist's Course
Atlanta, Georgia, February 2015
3. High Dose Cholinergic Therapy in Moderate and Severe Alzheimer Disease
Invited Lecture, Indian Academy of Neurology Annual Conference,
Indore, India, October 2013
4. Clinical Approaches to the Shifting Boundaries of Normal Cognitive Aging
McKnight Brain Research Foundation Annual Inter-institutional Meeting
Ross Bridge, AL, April 2013
5. Aging, Vision, and Cognition
McKnight Brain Research Foundation Annual Inter-institutional Meeting
Miami, FL, May 2011

GRANT SUPPORT: (PAST AND CURRENT)

A. Federal:

- 2014 – 2019 Investigator, 1R01AG045154 "Processing Speed Training Preserve Driving and Functional Competencies in MCI" (V. Wadley, PI; 10% effort)
- 2011-2015 Investigator, NIA 2R01-AG02197 "Functional change in mild cognitive impairment" (D. Marson, PI; 2% effort)
- 2011-2014 Investigator, Alzheimer's Disease Neuroimaging Initiative Grand Opportunity (ADNI-GO; D. Marson, site PI)

- 2011-present Investigator, Alzheimer's Disease Neuroimaging Initiative-2 (ADNI-2; D. Marson, site PI)
- 2001-2004 Principal Investigator, NIA RO1-AG28905 "Pioglitazone In Alzheimer Disease Progression" (\$216,000 annual direct costs, 20% effort)
- 2000-2001 Clinical Core Director, NIA P50-AG08012 (P.Whitehouse/K. Herrup PIs) Alzheimer's Disease Research Center (\$400,000 annual direct costs, 25% effort)

B. State/Local

- 2015-present Principal Investigator, UAM Personalized Medicine Initiative
Pharmacogenetic guidance to optimize safety and efficacy of psychotropic drug use in treatment of behavioral and psychiatric symptoms in dementia. (150,000 2 year award, 0% effort)
- 2008-09 Investigator, (George Bloom PI) Ivy Fund Award *Development of Radiological Imaging Tools for Early Diagnosis of Alzheimer's Disease* (\$55,000 one year award, 0% effort)
- 2004-05 Principal Investigator, Virginia Center on Aging Alzheimer's Pilot Award *Eye-movement approaches to information processing abnormalities in mild cognitive impairment.* (\$25,000 annual direct cost; 10 % effort)
- 2000-02 Program Leader, Raymond & Elizabeth Evans Foundation, *Understanding Parkinson's Disease for Health Care Providers* (\$250,000 unrestricted grant, 10% effort)
- 1996-97 Principal Investigator, Alzheimer Center Pilot Grant NIA P50AG08012 "Visual search in aging and Alzheimer's disease"(\$25,000 direct cost 10% effort)
- 1993-94 Principal Investigator - Pepper/NIA Pilot Grant Program P60AG010418 "Aging and continuous visuospatial search." (\$20,000 direct cost 10% effort)
- 1992-93 Principal Investigator - Foundation of UMDNJ Pilot Grant #36-93, "Attentional allocation following traumatic brain injury." (\$25,000 direct cost, 10% effort)

C. Investigator Initiated Clinical Trials (Industry Sponsored)

1. Principal Investigator, Takeda Pharmaceuticals North America "Pioglitazone In Alzheimer Disease Progression" (Supplied drug and placebo, \$60,000 annual value)
2001-2004
2. Principal Investigator, Eisai America Inc. A preliminary double-blind study evaluating the effect of donepezil (E2020) on visuospatial attention in patients with Alzheimer's disease. (Total costs \$254,000)

1995-1996

D. Clinical Trials Research Contracts

1. A Phase 2, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Cross-Over Study to Assess the Safety, Tolerability and Efficacy of AVP-786 for the Treatment of Disinhibition in Patients with Neurodegenerative Disorders.
Site Principal Investigator - Avanir Pharmaceuticals
2016-present
2. A Multicenter, Open-Label, Long-Term Treatment Study of Intravenously Administered BMS-986168 in Patients with Progressive Supranuclear Palsy who Participated in Study CN002003
Site Principal Investigator – Bristol Myers Squibb
2016- present
3. Longitudinal Evaluation of Amyloid Risk and Neurodegeneration – the LEARN Study: A Companion Observational Study to Anti-Amyloid Treatment in Asymptomatic Alzheimer’s Disease (A4) Trial
Site Principal Investigator – Alzheimer’s Assoc./Univ. Southern California
2015-present
4. A Randomized, Double-Blind, Placebo-Controlled. Multiple Ascending Dose Study of Intravenously Administered BMS-986168 in Patients with Progressive Supranuclear Palsy
Site Principal Investigator – Bristol Myers Squibb
2015- present
5. A Phase 2, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Cross-Over Study to Assess the Safety, Tolerability and Efficacy of AVP-786 for the Treatment of Disinhibition in Patients with Neurodegenerative Disorders.
Site Principal Investigator - Avanir Pharmaceuticals
2016-present
6. A Phase 3 Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Aducanumab (BIIB037) in Subjects with Early Alzheimer's Disease (EMERGE)
Site Principal Investigator – Biogen
2014-present
7. Anti-Amyloid Treatment in Asymptomatic Alzheimer’s Disease (Study A4)
Site Principal Investigator – UCSD/NIH/Lilly
2012-present
8. An open-label extension study to evaluate the long-term safety and tolerability of LuAE58054 as adjunctive treatment to acetylcholinesterase inhibitors in patients with mild-moderate Alzheimer’s disease

Site Principal Investigator –H. Lundbeck A/S
2014 –16

9. Randomised, Double-Blind, Parallel-Group, Placebo Controlled, Fixed-Dose Study of Lu AE58054 in Patients with Mild to Moderate Alzheimer's Disease Treated with Donepezil; Study 1

Site Principal Investigator –H. Lundbeck A/S
2014 –16

10. A 36 Week Safety Extension Study of Oral ELND005 for Treatment of Agitation and Aggression in Patients With Moderate to Severe Alzheimer's Disease

Site Principal Investigator- Elan Pharma International Limited
2013-present

11. A Prospective, Randomized, Double-Blind, Placebo-Controlled, Phase 2 Efficacy and Safety Study of Oral ELND005 for Treatment of Agitation and Aggression in Patients With Moderate to Severe Alzheimer's Disease

Site Principal Investigator- Elan Pharma International Limited
2013-2014

12. A Placebo-controlled, Double-blind, Parallel-group, Bayesian Adaptive Randomization Design and Dose Regimen-finding Study to Evaluate Safety, Tolerability and Efficacy of BAN2401 in Subjects With Early Alzheimer's Disease

Site Principal Investigator – Eisai, Inc.
2013 –present

13. Randomized, Controlled Study Evaluating CERE-110 in Subjects With Mild to Moderate Alzheimer's Disease

Site Principal Investigator –Ceregene/ADCS (sponsors)
2012-2015

14. A Randomized, Double-Blind, Placebo-Controlled, Phase III Parallel Group Study of the Safety and Effectiveness of Immune Globulin Intravenous (Human), 10% (IGIV, 10%) for the Treatment of Mild-To-Moderate Alzheimer's Disease

Site Principal Investigator –Baxter (sponsor)
2012-2013

15. A Randomized, Double-Blind, Placebo-Controlled, Two Dose-Arm, Parallel Study of the Safety and Effectiveness of Immune Globulin Intravenous (Human), 10% (IGIV, 10%) for the Treatment of Mild-To-Moderate Alzheimer's Disease

Investigator; (J. Brockington, site PI) - NIA/Baxter (sponsors)
2011-2012

16. A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Efficacy and Safety Trial of Bapineuzumab in Subjects With Mild to Moderate Alzheimer Disease Who Are Apolipoprotein E ϵ 4 Non-Carriers (Protocol 3133K1-3000)

Site Principal Investigator –Pfizer (sponsor)
2010-2011

17. A Phase 3 Extension, Multicenter, Double-Blind, Long-Term Safety and Tolerability Treatment Trial of Bapineuzumab (AAB-001, ELN115727) in Subjects With Alzheimer's Disease Who Participated in Study ELN115727-301 or Study ELN115727-302. (Protocol 115727-351)
Site Principal Investigator –Janssen Alzheimer Immunotherapy (sponsor)
2008-2011
18. Effects of Rivastigmine Patch on Activities of Daily Living and Cognition in Patients With Severe Dementia of the Alzheimer's Type (ACTION)
Site Principal Investigator – Novartis Pharmaceuticals (sponsor)
2010-2011
19. CONCERT: A Phase 3 Multicenter, Randomized, Placebo-Controlled, Double-Blind Twelve Month Safety and Efficacy Study Evaluating Dimebon in Patients With Mild-to-Moderate Alzheimer's Disease on Donepezil
Site Principal Investigator- Medivation Inc. (sponsor)
2009- 2011
20. A Randomized, Double-Blind, Placebo-Controlled, Dose-Ranging, Safety and Efficacy Study of Oral ELND005 (AZD-103) in Alzheimer's Disease (Protocol ELND005-AD201)
Site Principal Investigator – Élan Pharmaceuticals (sponsor)
2008-2011
21. A phase III, multicenter, randomized, double-blind, placebo-controlled, parallel- group, efficacy and safety trial of bapineuzumab (AAB-001, eln115727) in patients with mild to moderate Alzheimer's disease who are apolipoprotein Eε4 non-carriers. (Protocol 115727-301)
Site Principal Investigator – Élan Pharmaceuticals (sponsor)
2008- 2011
22. A phase III, multicenter, randomized, double-blind, placebo-controlled, parallel- group, efficacy and safety trial of bapineuzumab (AAB-001, eln115727) in patients with mild to moderate Alzheimer's disease who are apolipoprotein Eε4 carriers. (Protocol 115727-302)
Site Principal Investigator – Élan Pharmaceuticals (sponsor)
2008 - 2011
23. Open Label Continuation Study of the Safety of 23mg Donepezil Sustained Release Donepezil Immediate Release in Patients with Moderate to Severe Alzheimer's Disease protocol E2020-G006-328)
Site Principal Investigator – Eisai, Inc. (sponsor)
2008-2010
24. Double-Blind, Parallel-Group Comparison of 23mg Donepezil Sustained Release to 10mg Donepezil Immediate Release in Patients with Moderate to Severe Alzheimer's Disease protocol E2020-G006-326)
Site Principal Investigator – Eisai, Inc. (sponsor)
2007-2008
25. An Open-Label Extension Study Evaluating the Safety of Memantine in Patients with Moderate to Severe Dementia of the Alzheimer's Type. (Protocol MEM-MD-82)

Site Principal Investigator – Forest Laboratories sponsor)
2007 – 2009

26. An Open-Label Evaluation of the Safety of Memantine in Patients with Moderate-to-Severe Dementia of the Alzheimer's Type (Protocol MEM-MD-51)
Site Principal Investigator – Forest Laboratories (sponsor)
2007 - 2008
27. Open-label extension study of the Effect of Daily Treatment with MPC-7869 on subjects with Mild to Moderate Dementia of the Alzheimer's Type. (Protocol MP -7869-04-008)
Site Principal Investigator – Myriad Pharmaceuticals (sponsor)
2006 - 2008
28. A 54-week, double-blind, randomized, placebo-controlled, parallel-group study to investigate the effects of rosiglitazone (extended release tablets) as adjunctive therapy to acetylcholinesterase inhibitors on cognition and overall clinical response in *APOEε4*-stratified subjects with mild to moderate Alzheimer's disease (REFLECT-3)
Site Principal Investigator – GlaxoSmithKline(sponsor)
2006 - 2008
29. Phase 3, Randomized, Double Blind, Placebo Controlled Study of the Effect of Daily Treatment with MPC-7869 on Measures of Cognitive and Global Function in Subjects with Mild to Moderate Dementia of the Alzheimer's Type. (Protocol MPC-7869-04-005)
Site Principal Investigator – Myriad Pharmaceuticals (sponsor) 2005 - 2007
30. A randomized, double-blind, placebo-controlled trial to evaluate the safety and efficacy of Donepezil HCL in mild cognitive impairment.
Site Principal Investigator – Eisai, Inc. (sponsor)
2004-2006
31. Randomized, double-blind placebo-controlled trial of valproate for neuroprotection in Alzheimer's disease.
Site Principal Investigator – NIA/AD Cooperative Study
2004-2006
32. A Phase II Double-Blind, Randomized, Dose-Ranging, Placebo-Controlled, Multicenter, Safety and Efficacy Evaluation of Three Doses of NS2330 in Patients with Mild to Moderate Dementia of the Alzheimer's Type.
Site Principal Investigator – Boehringer-Ingelheim (sponsor)
2002-2004
33. A randomized, double-blind, placebo-controlled study to determine the safety and efficacy of FK 960 in patients with mild to moderate probable Alzheimer's Disease (AD).
Site Principal Investigator – Fujisawa, Inc. (sponsor)
1999-2000
34. A randomized, double-blind, placebo-controlled trial to evaluate the safety and efficacy of Vitamin E and Donepezil HCL (Aricept ®) to delay clinical progression from Mild Cognitive Impairment (MCI) to Alzheimer's Disease (AD).
Co-Investigator, NIA-Alzheimer's Disease Cooperative Study

1998- 2002

35. A 24-week, multi-center, randomized, double-blind, placebo-controlled Evaluation of the Efficacy and Safety of Donepezil Hydrochloride (E2020) in patients with dementia associated with Cerebrovascular Disease.
Site Principal Investigator, Eisai, Inc. (sponsor)
1997 –1999
36. An Open Label Study to Evaluate the Safety and Efficacy of 1.5 mg bid (3 mg per day) Through 6 mg bid (12 mg per day) of Exelon in Patients with Mild to Severe Probable Alzheimer's Disease in the Community Setting. #ENAB356.
Site Principal Investigator, Novartis Pharmaceutical (sponsor)
1997-1999
37. An open label administration of SB202026 in patients suffering from probable dementia of the Alzheimer's type.
Site Co-Principal Investigator, SmithKline Beecham (sponsor)
1995-97
38. A randomized double-blind, placebo controlled dose-ranging study of the efficacy and tolerability of SB202026 in patients suffering from dementia of the probable Alzheimer's type.
Site Co-Principal Investigator, SmithKline Beecham (sponsor)
1995-97
39. An open-label, multicenter, extended evaluation of the safety and efficacy of E2020 in patients with Alzheimer's disease.
Site Principal Investigator, Eisai America, Inc. (sponsor)
1994-97
40. 15-week multicenter randomized, double blind, placebo controlled evaluation of the safety and efficacy of E2020 in patients with Alzheimer's disease.
Site Principal Investigator, Eisai America, Inc (sponsor)
1994-95

OTHER:

Educational Programs Administration and Leadership

1. Course Director, *MemoryCommons.org*, ongoing Internet based CME service (launch date 7-12-2010).
This internet based CME portal is being developed jointly as a collaboration of the UVA CME Office, the UVa Institute on Aging, the UVA School of Nursing, The Virginia Commonwealth University Gerontology program, and the Central and Western Virginia Chapter of the Alzheimer's Association. The program is modeled on the highly successful CardioVillage.com, a web-based CME portal for cardiovascular education developed by the UVA CME office. CardioVillage has operated since 1999 and has had >100,000 users.
2. Course Director, *Collaborating to Fight Alzheimer's Disease: Integrated Approaches to Research, Treatment and Care Giving* - CME program June 20, 2009
This course was developed jointly with the UVa Institute on Aging and the Central and Western Virginia Chapter of the Alzheimer's Association. It was supported by a \$22,000 conference grant from the state-funded Virginia Center on Aging.

3. Chairman, Annual Dementia Congress, 2002-2008. CME-accredited by the Academy for Healthcare Education, New York.
This annual program, supported by unrestricted educational grants from the pharmaceutical industry, was the largest clinically focused dementia specific CME program in the world. As chair, I developed the agenda, tone, and faculty selections in conjunction with the accrediting body. I oversaw the content development by the faculty, and moderate the program, which attracts 800-1000 attendees over three days each year.
4. Course Director, “2nd Virginia Dementia Congress” – CME program at UVa, October 7, 2006.
This course was developed jointly with the Central and Western Virginia Chapter of the Alzheimer’s Association designed to provide physicians and nonphysician providers of dementia care with an interdisciplinary review of best practices in dementia care. It was approved for 6 CME hours through the UVa CME office.
5. Director, Neurology Clerkship - University of Virginia Department of Neurology – 2005-2011
6. Course Director, “Virginia Dementia Congress” – CME program at UVa, December 3-4, 2004.
This course was designed to provide clinicians and researchers in AD with a review of recent approaches. It was approved for 7.5 CME hours through the UVa CME office.
7. Director, Raymond and Elizabeth Evans Program in Understanding Parkinson’s Disease” Case Western Reserve University 2000-2002
 - Developed series of educational programs on PD targeting hands-on family- and paid-caregivers for patients with Parkinson’s disease. Interdisciplinary programming, including physician, social work, registered nurse, and physical therapy didactics was Nursing-CEU approved.
 - Developed video-tape program for self instruction of caregivers (Won first place in Northern Ohio film festival for instructional/educational material)

BIBLIOGRAPHY

- Organized by manuscript type; reverse chronological order
- Asterisk indicates corresponding author, student/trainee names underlined;

Summary: 88 indexed publications, 3399 total citations

H Index = 23

(per Scopus database, accessed 10/31/2016)

A. Peer Reviewed (original research)

1. Batra S, Sullivan J, Williams BR, Geldmacher DS*. Qualitative assessment of self-identity in people with advanced dementia. *Dementia* (London). 2015 Oct 22. pii: 1471301215601619. PMID: 26493236
2. Fritsch T*, McClendon MJ, Wallendal MS, Smyth KA, Geldmacher DS, Hyde TF, Leo GJ. Can a Memory Club Help Maintain Cognitive Function? A Pilot Investigation, *Activities, Adaptation & Aging*, 2014; 38:, 29-52, doi: 10.1080/01924788.2014.878873

3. Clark DG*, Kapur P, Geldmacher DS, Brockington JC, Harrell L, DeRamus TP, Blanton PD, Lokken K, Nicholas AP, Marson DC. Latent information in fluency lists predicts functional decline in persons at risk for Alzheimer disease. *Cortex* 2014; doi: 10.1016/j.cortex.2013.12.013
4. Riedel BC, Ducharme JK, Geldmacher DS*. Family composition and expressions of family-focused care needs at an academic memory disorders clinic. *International Journal of Alzheimer's Disease* 2013 doi: 10.1155/2013/436271
5. Geldmacher DS, Kirson NY*, Birnbaum HG, Eapen S, Kantor E, Cummings AK, Joish VN. Pre-Diagnosis Excess Acute Care Costs in Alzheimer's Patients among a US Medicaid Population. *Appl Health Econ Health Policy*. 2013;11:407-13. doi: 10.1007/s40258-013-0038-9.
6. Geldmacher DS, Kirson NY*, Birnbaum HG, et al. Implications of early treatment among Medicaid patients with Alzheimer's disease. *Alzheimers Dement*. 2013 May 2. doi:pii: S1552-5260(13)00047-2. 10.1016/j.jalz.2013.01.015. [Epub ahead of print]
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8. Salloway S*, Mintzer J, Cummings JL, Geldmacher D, Sun Y, Yardley J, Mackell J. Subgroup analysis of US and non-US patients in a global study of high-dose donepezil (23 mg) in moderate and severe Alzheimer's disease. *Am J Alzheimers Dis Other Demen*. 2012;27:421-32. doi: 10.1177/1533317512454708.
9. Ducharme JK, Geldmacher DS*. Family quality of life in dementia: a qualitative approach to family-identified care priorities *Qual Life Res* DOI 10.1007/s11136-011-9852-4
10. Geldmacher DS*, Fritsch T, McClendon MJ, Landreth GE. A randomized pilot clinical trial of the safety of pioglitazone in treatment of patients with Alzheimer disease. *Arch Neurol*. Published online September 13, 2010. doi:10.1001/archneurol.2010.229
11. Quigg M*, Geldmacher DS, Elias WJ. Conduction aphasia as a function of the dominant posterior perisylvian cortex. Report of two cases. *Journal of Neurosurgery* 2006;104;845-8
12. Santillan CE*, Fritsch T, Geldmacher DS. Development of a scale to predict decline among mildly demented Alzheimer's disease patients *Journal of the American Geriatrics* 2003;51:91-95
13. Geldmacher DS, Provenzano G, McRae T, Mastey V, Ieni JR*. Donepezil is associated with delayed nursing home placement in patients with Alzheimer's disease. *Journal of the American Geriatrics Society* 2003;51:937-944.

14. Black SE, Roman G, Geldmacher DS, Salloway S, Hecker J, Burns A, Perdomo C, Kumar D, Pratt RD*. Efficacy and tolerability of donepezil in vascular dementia: Positive results of a 24-week, multicenter, international, randomized, placebo-controlled clinical trial. *Stroke* 2003; 34:2323-30.
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21. Wu Q, Combs C, Cannady SB, Geldmacher DS, Herrup K*. Beta-amyloid activated microglia induce cell cycling and cell death in cultured cortical neurons. *Neurobiology of Aging* 2000;21:797-806.
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38. Shuren J, Geldmacher DS, Heilman KM*. Nonoptic aphasia. *Neurology*, 1993; 43:1900-1907

B. Review articles (peer reviewed)

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2. Geldmacher DS*, Kerwin DR. Practical diagnosis and management of dementia due to Alzheimer's disease in the primary care setting: An evidence-based approach *Primary Care Companion to the Journal of Clinical Psychiatry* 2013;15: doi: 10.4088/PCC.12r01474
3. Cummings JL*, Geldmacher D, Farlow M, Sabbagh M, Christensen D, Betz P. High-dose donepezil (23 mg/day) for the treatment of moderate and severe Alzheimer's disease: drug profile and clinical guidelines. *CNS Neurosci Ther.* 2013 May;19(5):294-301. doi: 10.1111/cns.12076. Epub 2013 Mar 6.
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(served as panelist on consensus group)
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C. Books and Chapters

Books

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2. Geldmacher DS. Contemporary diagnosis and management of Alzheimer's dementia. First edition 2003: Newtown, Pennsylvania: Handbooks in Health Care, Co. (ISBN# 1-931981-16-7)
3. Geldmacher DS. Contemporary diagnosis and management of Alzheimer's disease. First edition 2001: Newtown, Pennsylvania: Handbooks in Health Care, Co. (ISBN# 1-884065-39-2)

Book Editor

Geldmacher DS (Editor) Other Dementias. Delray Beach, FL: Carma Publishing, 2008

Invited Book Chapters

1. Natelson Love MC, Geldmacher DS. Alzheimer's disease. In: Yudofsky S, Hales R Arciniegas, D, ed. *American Psychiatric Publishing Textbook of Neuropsychiatry and Behavioral Neuroscience*, Sixth ed. Washington: American Psychiatric Press. (in press.)

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5. Fritsch T, Smyth KA, Wallendal MS, Einberger K, Geldmacher DS. Early memory loss clubs: A novel approach for stimulating and sustaining cognition. In P. E. Hartman-Stein & A. LaRue (Eds.), *Enhancing cognitive fitness: A guide to the use and development of community-based programs*. New York: Springer Science+Business Media. 2011;381-400.
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7. Geldmacher DS. Pharmacotherapy of cognition. In Scharre D, (ed.), *Long-Term Management of Dementia*, ISBN:9780849338533. New York: Informa Healthcare. 2010;56-70.
8. Geldmacher DS. Alzheimer's disease. In: Weiner M, Lipton A, eds. *American Psychiatric Press handbook of Alzheimer's disease and related disorders*. Washington: American Psychiatric Press 2009; 155-172
9. Geldmacher DS, Bowen B. Spinal cord vascular disease. (Chapter 55F) In: Bradley WG, Daroff RB, Fenichel GB, Jankovic J (eds). *Neurology in Clinical Practice*, 5th Ed. Philadelphia: Elsevier 2008;
10. Crooks EA, Geldmacher DS. Supportive Care for Dementia. In: Gilman S, (ed). *Medlink Neurology*. [electronic reference, www.medlink.com] San Diego, CA: Medlink Corporation. 2006.
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12. Geldmacher DS. Dementia overview. In Evans RW (ed.) *Saunders Manual of Neurologic Practice*, Philadelphia: Saunders 2003;179-182

13. Geldmacher DS. Alzheimer's disease. In Evans RW (ed.) Saunders Manual of Neurologic Practice, Philadelphia: Saunders 2003;183-187
14. Geldmacher DS, Bowen B. Spinal cord vascular disease. In: Bradley WG, Daroff RB, Fenichel GB, Marsden CD (eds). Neurology in Clinical Practice, 4th Ed. Boston: Butterworth 2003; 1313-1322
15. Geldmacher DS. Memory and praxis complaints. In Evans RW (ed.) Saunders Manual of Neurologic Practice, Philadelphia: Saunders 2003;47-50
16. Geldmacher DS. Dementia overview. In Evans RW (ed.) Saunders Manual of Neurologic Practice, Philadelphia: Saunders 2003;179-182
17. Geldmacher DS. Alzheimer's disease. In Evans RW (ed.) Saunders Manual of Neurologic Practice, Philadelphia: Saunders 2003;183-187
18. Geldmacher DS, Bowen B. Spinal cord vascular disease. In: Bradley WG, Daroff RB, Fenichel GB, Marsden CD (eds). Neurology in Clinical Practice, 4th Ed. Boston: Butterworth 2003; 1313-1322
19. Geldmacher DS. Spinal cord vascular disease. In: Bradley WG, Daroff RB, Fenichel GB, Marsden CD (eds). Neurology in Clinical Practice, 3rd Ed. Boston: Butterworth, 2000:1225-1230.
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21. Geldmacher DS. Delirium, Agitation, and Confusion. In: Geriatric Neurosurgery Warren R. Selman, Edward C. Benzel. Washington, DC: American Association of Neurological Surgeons, Publications Committee 1999:197-209.
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23. Geldmacher DS. Spinal cord vascular disease. In: Bradley WG, Daroff RB, Fenichel GB, Marsden CD (eds). Neurology in Clinical Practice, 2nd Ed. Boston: Butterworth, 1996:1080-1085.
24. Geldmacher DS, Whitehouse PJ. Alzheimer's disease and other dementias. In: Jahnigan D, Schrier RW (eds). Geriatric Medicine, 2nd Ed, Cambridge: Blackwell Science, 1996:588-599

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27. Geldmacher DS, Whitehouse PJ. Organic mental syndromes. In: Dell AE, Marintelli RP (eds) Encyclopedia of Disability and Rehabilitation, New York: Simon and Schuster McMillan, 1995:528-530.
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29. Geldmacher DS, Nager BJ. Section on spinal cord. In : Bonner JS, Bonner JJ, (eds). The Little Black Book of Neurology, 2nd edition, Chicago: Year Book Medical Publishing, 1991.
30. Geldmacher DS. Sections on ataxia, brain death, cardiac arrest, coma, frontal lobe, spinocerebellar degeneration, thyroid, vasculitis, and Wilson's disease. In: Bonner JS, Bonner JJ, (eds). The Little Black Book of Neurology, 2nd edition, Chicago: Year Book Medical Publishing, 1991.
31. Geldmacher DS, Nager BJ. Spinal cord vascular disease. In: Bradley WG, Daroff RB, Fenichel GB, Marsden CD, (eds). Neurology in Clinical Practice, Boston: Butterworth, 1990:983-988.

D. Editorial Activities:

1. Guest Editor – Alzheimer’s Disease and Dementia (special issue) *Clinics In Geriatric Medicine* 2004;20(1):1-157
2. Guest Editor –Dementia Update: Overview from the First Annual Dementia Congress; *Journal of the American Geriatrics Society* 2003;51 supplement:S281-S326
3. Editorial Consultant
 - a. Distinguishing vascular dementia from Alzheimer’s Disease *Patient Care* 1999;33(17)71-89
 - b. Contemporary drug treatment *Patient Care* 2001;35(3)54-67
 - c. Providing care for the caregiver *Patient Care* 2001;35(3)68-86
4. Guest Editor - Behavioral Neurology Special Issue. *Neurorehabilitation* 1995;5:101-193

E. Short Communications

Letters To The Editor

1. Geldmacher DS, Fritsch T, Landreth G. Targets of the peroxisome proliferator-activated receptor- γ agonist trials for the prevention of Alzheimer disease—reply [letter]. Archives of Neurology 2011;68(4):542-543. doi:10.1001/archneurol.2011.5
2. Geldmacher DS, Quigg M, Elias WJ. Re: MR tractography depicting damage to the arcuate fasciculus in a patient with conduction aphasia [letter] Neurology 2007;69:321
3. Geldmacher DS, Provenzano G, McRae T, Ieni JR. Another data/rhetoric mismatch on donepezil - Response to Dr. Finucane [letter] J Am Geriatrics Soc 2005;53:1831-32
4. Geldmacher DS, Provenzano G, McRae T, Ieni JR. Delay in nursing home placement with donepezil - Response [letter] J Am Geriatrics Soc 2004;52:1026-7
5. Geldmacher DS, Provenzano G, McRae T, Ieni JR. Mortality in donepezil-treated patients - Response letter to Dr. Ott et al. [letter] J Am Geriatrics Soc 2004;52:1413
6. Geldmacher DS, Provenzano G, McRae T, Ieni JR. Responses to: “Another advertisement for Donepezil,” “Donepezil's effects remain uncertain,” and “Donepezil delay to nursing home placement study is flawed” [letter] J Am Geriatrics Soc 2004;52:1026-7

Published Editorials:

1. Standaert DG, Geldmacher DS. GBA, Parkinson disease, and the "senses and intellect." Annals of neurology 2016 Oct 25. doi: 10.1002/ana.24808. PMID: 27779773
2. Geldmacher DS. Spicing it up. Practical Neurology 2007;6(12)14-15
3. Geldmacher DS. Are You the MVP or the Coach? Practical Neurology 2007;6(11)16-17
4. Geldmacher DS. Wake Up And Smell The Coffee. Practical Neurology 2007;6(10)12-13
5. Geldmacher DS. When What You Don't Know Can Hurt You. Practical Neurology 2007;6(9)10-11
6. Geldmacher DS. When Bad Things Happen to Good Proteins. Practical Neurology 2007;6(8)10-11

7. Geldmacher DS. Big-league Billing: How to Boost Your Batting Average Practical Neurology 2007;6(7)10-11
8. Geldmacher DS. Playing the Percentages Practical Neurology 2007;6(6)11-12
9. Geldmacher DS. A star is born. Practical Neurology 2007;6(5)14-15
10. Geldmacher DS. Paying at the pump and the high price of gas Practical Neurology 2007;6(4):14-15
11. Geldmacher DS. What if the patient doesn't care? Practical Neurology 2007;6(3):14-15
12. Geldmacher DS. "There you go again." Practical Neurology 2007;6(2):17-18.
13. Geldmacher DS. Exercising the body and the mind. Practical Neurology 2007;6(1):26-7
14. Geldmacher DS. CATIE, CATIE, Quite Contrary: a dramatic revue of atypical antipsychotics. Practical Neurology 2006;5(12):12-13
15. Geldmacher DS. Dollars and Sense: The Economics of Alzheimer's Practical Neurology 2006;5(11):14-15
16. Geldmacher DS. Sugar-coated: Will diabetes "supersize" the Alzheimer's population. Practical Neurology 2006;5(10):14-15
17. Geldmacher DS. What's the buzz on alcohol? Practical Neurology 2006;5(9)14-15
18. Geldmacher DS. What's in a name? Practical Neurology 2006;5(8)14-15
19. Geldmacher DS. Whatever happened to Pick's disease? Practical Neurology 2006;5(7) :14-15
20. Geldmacher DS. Dementia in Parkinson's Disease: Looking But Not Seeing Practical Neurology 2006;5(6):12-13
21. Geldmacher DS. Searching for Marcus Welby. Practical Neurology 2006;5(5):47-48
22. Geldmacher DS. Barking up the wrong tree. Practical Neurology 2006;5(4):14-15
23. Geldmacher DS. Lifting the fog: what to do about unintentional use of anticholinergics Practical Neurology 2006;5(3):14-15
24. Geldmacher DS. Can neurologists solve the DLB dilemma? Practical Neurology 2006;5(2):12-13
25. Geldmacher DS. To dream, perchance, of sleep. Practical Neurology 2006;5(1):14-15
26. Geldmacher DS. Driven to Fail? How to handle the delicate discussion of driving competence Practical Neurology 2005;4(12):16-17
27. Geldmacher DS. "Boxed in" by the FDA: Now what do we do? Practical Neurology 2005;4(11):13-15

28. Geldmacher DS. You can't always get what you want. *Practical Neurology* 2005;4(10):13-15
29. Geldmacher DS. If we could only tell patients, "Because I said so..." *Practical Neurology* 2005;4(9):17-18
30. Geldmacher DS. Fat Chance: Is There a Role for Statins in AD Prevention? *Practical Neurology* 2005;4(8):16-18
31. Geldmacher DS. The AD Vaccine: A Shot in the Arm for Alzheimer's Patients? *Practical Neurology* 2005;4(7):16-17
32. Geldmacher DS. Putting Laboratory Tests Under the Microscope *Practical Neurology* 2005;4(6):14-15
33. Geldmacher DS. MCI: Mostly Confusing Information on Mild Cognitive Impairment *Practical Neurology* 2005;4(5):24-25
34. Geldmacher DS. Diagnosing Alzheimer's: Easy answers vs. right answers. *Practical Neurology* 2005;4(4):14-15
35. Geldmacher DS. Under pressure: Assessing the impact of the NPH controversy *Practical Neurology* 2005;4(3):24-25
36. Geldmacher DS. Tracking the fortunes of hormone replacement therapy *Practical Neurology* 2005;4(2):24-25
37. Geldmacher DS. Setting treatment goals: A modest proposal. *Practical Neurology* 2005;4(1):21-22
38. Geldmacher DS. Fulfilling expectations. *Annals of Long Term Care* 2004;12(10):46-48
39. Geldmacher DS. Donepezil in vascular dementia: a viewpoint. *Drugs and Aging* 2003;20:1137.

F. Abstracts

1. Geldmacher DS, Pilonieta G. The factorial structure of the Alabama Brief Cognitive screener in a Memory Disorders clinic population. Presented at the American Geriatrics Society 2016 Annual Scientific Meeting, Long Beach, CA, May 2016
2. Natelson Love M, Pilonieta G, Geldmacher DS. Alabama Brief Cognitive screener scores vary appropriately by diagnosis, resemble mmse scoring distributions, and predict level of impairment in instrumental activities of daily living in a Memory Disorders Clinic. Presented at the American Geriatrics Society 2016 Annual Scientific Meeting, Long Beach, CA, May 2016
3. Geldmacher DS, Pilonieta G. Development, Implementation, and Initial Patient Characteristics of an Alzheimer's Risk Assessment and Intervention Clinic. Poster presented at the *Alzheimer's Association International Conference*, Washington, DC, July 2015

4. Natelson Love M, Pilonieta G, Geldmacher DS. Alabama Brief Cognitive Screener Scores Predict Level of Impairment in Instrumental Activities of Daily Living and Dementia Diagnosis in a Memory Disorders Clinic. Poster presented at the *Alzheimer's Association International Conference*, Washington, DC, July 2015
5. Natelson Love M, Pilonieta G, Geldmacher DS. Alabama Brief Cognitive Screener Scores Vary Appropriately By Diagnosis and Resemble MMSE Scoring Distributions. Poster presented at the *Alzheimer's Association International Conference*, Washington, DC, July 2015
6. Natelson Love M, Pilonieta G, Geldmacher DS. Level of Impairment in Instrumental Activities of Daily Living Predicts Alabama Brief Cognitive Screener Scores in a Memory Disorders Clinic. Presented at *International Neuropsychological Society Annual Scientific Meeting*, Denver, February 2015
7. Natelson Love M, Geldmacher DS. The Alabama Brief Cognitive Screener. Presented at the *66th Annual Meeting of the American Academy of Neurology* Boston, MA. April 2014
8. Batra S, Sullivan JA, Geldmacher DS. Qualitative assessment of self-identity in advanced dementia. Poster presented at *NCUR 2014, The National Conference on Undergraduate Research*, Lexington, KY, April 2014
9. Natelson Love M, Geldmacher DS. The Alabama Brief Cognitive Screener. Presented at the *International Neuropsychological Society Annual Scientific Meeting*, Seattle WA, February 2014
10. Batra S, Sullivan JA, Geldmacher DS. Qualitative assessment of self-identity in advanced dementia. Poster presented at the *13th Alzheimer's Association International Conference*, Boston, MA. July 2013
11. Geldmacher DS, Riedel BC, Ducharme J. Family Composition and Family Care Priorities at an Academic Memory Disorders Clinic. Presented at *65th Annual Meeting of the American Academy of Neurology*, San Diego, CA, March 2013
12. Geldmacher DS, Kirson NY, Birnbaum HG, Eapen S, Cummings AK, Joish VN. Cost Implications of Early Treatment among Patients with Alzheimer's Disease – a Medicaid Perspective. Presented at *64th Annual Meeting of the American Academy of Neurology*, New Orleans, LA, April 2012
13. Geldmacher DS, Kirson NY, Birnbaum HG, Kantor E, Eapen, Joish V. Effect of treatment timing on risk of institutionalization among patients with Alzheimer's disease. Presented at *International Society for Pharmacoeconomics and Outcomes Research Annual Meeting*, Madrid, Spain, November 2011
14. Geldmacher DS, Kirson NY, Birnbaum HG, Eapen S, Kantor E, Joish V. Excess acute care costs among Medicaid Alzheimer's patients in the year prior to

- diagnosis. Presented at the *11th Alzheimer's Association International Conference on Alzheimer's Disease and Related Disorders*, Paris, France, July 2011
15. Carter J, Geldmacher DS, Isaacson R, Soni M, Ali I, Poehmann N, Wu Q, Jozefowicz R. Why Do US Medical Students Choose Neurology as a Career? Results of a Multicenter Cross-Sectional Survey of US Medical School Seniors. Abstract P05.016. Presented at *63rd Annual Meeting of the American Academy of Neurology*, Honolulu, HI, April 2011
 16. Geldmacher DS. Faculty grading practices in a clinical clerkship. Presented at *UVa Academy of Distinguished Educators Poster Session* February 2010
 17. Geldmacher DS, Chen S, Martindale J. Student perceptions of writing assignments in a clinical clerkship. Presented at *UVa Academy of Distinguished Educators Poster Session* February 2010
 18. Geldmacher DS, Ducharme J. Family Quality of Life in Dementia: Qualitative Approach to Family-Identified Care Priorities. Presented at *62nd Annual Scientific Meeting, Gerontologic Society of America*, Atlanta GA, November 2009
 19. Geldmacher DS, Nathan R, Thompson-Heisterman A, Manning C. Optimizing Interdisciplinary Dementia Care in an Academic Outpatient Setting. Presented at *62nd Annual Scientific Meeting, Gerontologic Society of America*, Atlanta GA, November 2009
 20. Geldmacher DS, Fritsch T, McClendon MJ, Debanne SM. Addressing Data Analysis Challenges in a Preliminary Clinical Drug Trial. Presented at *62nd Annual Scientific Meeting, Gerontologic Society of America*, Atlanta GA, November 2009
 21. Nathan R, Geldmacher D, Manning C, Thompson-Heisterman A. A novel interdisciplinary care model for dementia. Presented at *International Psychogeriatric Association Biennial meeting*, Montreal, Quebec, Canada, September 2009
 22. Thompson-Heisterman A, Geldmacher D, Manning C, Nathan R, Damgaard P, Cady K, Peterson A. Connecting geriatric nursing practice, education and research through an interdisciplinary memory and aging care clinic. Presented at *Connecting the Dots: Geriatric Nursing, Education, and Clinical Simulation Conference*. University of North Carolina School of Nursing, Durham NC, April 2009
 23. Geldmacher DS. Meeting the ED-2 Challenge in Neurology. Presented at *UVa Academy of Distinguished Educators Poster Session* February 2009
 24. Owen JA, Solenski NJ, Geldmacher DS. Evaluating Differences between Novice and Expert Responses to Neurology Case Studies. Presented at *UVa Academy of Distinguished Educators Poster Session* February 2009

25. Fowler MV, Geldmacher DS. Rehabilitation of Retrosplenial Amnesia: Preserved Insight as a Diagnostic and Therapeutic Tool. Presented at American Congress of Rehabilitation/ American Society of Neurorehabilitation, Joint Annual Meeting, Boston MA, September 2006
26. Geldmacher DS. Visual exploration in mild cognitive impairment. Presented at the 10th International Conference on Alzheimer's Disease and Related Disorders, Madrid, Spain, July 2006
27. Geldmacher DS, Fritsch T, McClendon MK, Lerner AJ, Landreth GE. A double-blind, placebo-controlled, 18-month pilot study of the PPAR-gamma agonist pioglitazone in Alzheimer's disease. Presented at the 10th International Conference on Alzheimer's Disease and Related Disorders, Madrid, Spain, July 2006
28. Geldmacher DS, Fritsch T, McClendon MK, Lerner AJ, Landreth GE. A double-blind, placebo-controlled, 18-month pilot study of the PPAR-gamma agonist pioglitazone in Alzheimer's disease. *Ann Neurol* 2006;60 (Suppl 10):S16.
29. Sansur CA, Elias J, Geldmacher DS, Quigg M. Conduction aphasia as a function of the dominant posterior perisylvian cortex. *Epilepsia* 2005; 46(Suppl. 8): 355
30. Geldmacher DS, Landreth GE. Pioglitazone In Alzheimer's Disease: Rationale and Clinical Trial Design. *Neurobiology of Aging* 2004;25(Suppl. 2):S211-12
31. Geldmacher DS. Stimulus Features and Eye-Movements in Alzheimer Disease: Effect of "Pop-Out" Stimuli. *Neurobiology of Aging* 2004;25(Suppl. 2):S319-20
32. Geldmacher DS. Donepezil slows functional deterioration in patients with vascular dementia. Presented at the European Federation of Neurological Societies Annual Congress, Vienna, Austria, October 2002
33. Geldmacher DS, Pratt RD, Perdomo CA, and the donepezil 307 VaD Study Group. Donepezil improves cognition in patients with vascular dementia. Presented at the European Federation of Neurological Societies Annual Congress, Vienna, Austria, October 2002
34. Khan J, Geldmacher DS. Primary progressive apraxia: an unusual presentation of Alzheimer's disease. Presented at the American Geriatrics Society Annual Meeting, Washington, DC, May 2002
35. Geldmacher DS, Sperry SD, Strauss ME, Whitney C, Riley D. Apathy in Alzheimer's and Parkinson's disease. Presented at the Gerontological Society of America annual meeting Chicago IL, November 2001 (*Gerontologist* 2001; 41, Special Issue 1: 281).

36. Barry MA, Patterson MB, Geldmacher DS. Decline to dementia in a case of hippocampal sclerosis verified at autopsy. International Neuropsychological Society Chicago, IL, February 2001.
37. Geldmacher DS, Riedel T. Visual exploration in Alzheimer's disease: eye-movements with "pop-out" stimuli. International Neuropsychological Society Chicago, IL, February 2001.
38. Ogrocki PK, Fritsch T, Geldmacher DS, Patterson MB. A diagnostic profile for dementia with Lewy bodies vs. pure Alzheimer's disease. International Neuropsychological Society Chicago, IL February 2001.
39. Ueberroth AN, Geldmacher DS. Target/distractor ratio effects on cancellation tasks in aging and Alzheimer's disease. International Neuropsychological Society Chicago, IL, February 2001.
40. Yang Y, Cicero SA, Geldmacher DS, Herrup K. DNA Replication Occurs in At-risk neurons in the Alzheimer's Disease Brain.. Presented at the Society for Neuroscience Annual Meeting, November 2000.
41. Ogrocki PK, Fritsch T, Geldmacher DS, Patterson MB. Noncognitive symptoms in autopsy confirmed pure AD and AD with Lewy bodies. Presented at the Gerontological Society of America annual meeting Washington DC, November 2000.
42. Geldmacher DS, Santillan CG, Fritsch T. Development of a Scale to Predict Decline Among Mildly Demented Alzheimer Disease patients. Neurobiology of Aging 2000; 21(Suppl 1S):S93.
43. Yang Y, Geldmacher DS, Gambetti P, Herrup K. DNA Replacement is Associated With Nerve Cell Loss in Alzheimer's Disease. Neurobiology of Aging 2000;21(Suppl 1S):S118-119.
44. Geldmacher DS, Perdomo C, Pratt R. Effects of Donepezil Treatment on Visual Attention/Exploration Tasks in Patients With Alzheimer's Disease. Neurobiology of Aging 2000;21(Suppl 1S):S169.
45. Mizrahi E, Fritsch T, Geldmacher DS, Friedland R, Lerner A. Medication Utilization in Alzheimer Disease and Healthy Aging: Results in a Research Registry. Neurobiology of Aging 2000;21 (Suppl 1S):S26.
46. Geldmacher DS, Wu Q, Herrup K. Models of cell death in Alzheimer's disease: Synergistic effects of beta-amyloid and microglia on cell-cycle mediated neuronal death. Presented at the American Neurological Association 124th annual meeting, Seattle, Washington, October 1999

47. Geldmacher DS, Riedel T, Fontanilla F. Eye-movements during viewing of Incomplete Pictures in Alzheimer's disease. Journal of The International Neuropsychological Society, 1999;5:151.
48. Pratt RD, Geldmacher DS, Perdomo CA. An evaluation of the long-term efficacy of donepezil in patients from a Phase III clinical extension trial. Neurology 1999;52(Suppl 2): A481-482.
49. Doody RS, Geldmacher DS, Pratt RD, Perdomo CA. Optimal donepezil efficacy in Alzheimer's disease is dependent on continued administration. J Neurol 1999;246(Suppl 1): P226.
50. Geldmacher DS, Fontanilla F, Riedel T. Cancellation testing of visuospatial search in Alzheimer's disease. Presented at American Society of Neurorehabilitation, Annual Meeting, Minneapolis, MN, April 1998.
51. Geldmacher DS, Riedel T, Fontanilla F. Behavioral eye-movement analysis of The Gollin Incomplete Pictures test. Presented at American Society of Neurorehabilitation, Annual Meeting, Minneapolis, MN, April 1998.
52. Geldmacher DS. Clinical experience with donepezil hydrochloride: case studies. Presented at The Alzheimer's Association Annual Conference Chicago, IL, July 1997.
53. Esteban-Santillan CG, Geldmacher DS, Cole R. The clinical dementia rating in mild Alzheimer's disease. Journal of Neuropsychiatry and Clinical Neuroscience, 1997; 9:173.
54. Geldmacher DS, Praditsuwan R, Arora PL, Strauss ME, Whitehouse PJ. Clinical correlates of the psychosis DRG among the hospitalized elderly. Journal of Neuropsychiatry and Clinical Neuroscience, 1997; 9, 172
55. Geldmacher DS, Esteban-Santillan C. Cancellation assessment of automatic and effortful visual processing in Alzheimer's disease. Journal of The International Neuropsychological Society, 1997; 3(1):16.
56. Geldmacher DS, Kori A. Late-emerging ipsilateral neglect following right anterior choroidal artery infarction. Journal of The International Neuropsychological Society, 1997; 3(1):72
57. Kori A, Geldmacher DS. Visual field influences and three dimensional neglect following right anterior choroidal infarction. Neurology, 1996; 46(suppl 2):A134.
58. Neundorfer MM, Smyth KA, Koss E, Geldmacher DS, Stuckey JC, Whitehouse PJ. Awareness of deficits in Alzheimer's disease and caregiver outcomes. Presented at the Gerontologic Society of America, November, 1996, Washington, D.C.

59. Praditsuwan R, Geldmacher DS, Esteban-Santillan C, Ueda H. Clock drawing test in very mild dementia. Presented at the American Geriatrics Society/American Federation for Aging Research Meeting, May 1996, Chicago, Illinois.
60. Geldmacher D, Kong H. Effect of stimulus number and target-to-distractor ratio on letter-cancellation tasks. Journal of the International Neuropsychological Society, 1995; 1:340.
61. Esteban-Santillan C, Geldmacher DS. The CDR scoring methods in the assessment of disease severity and progression in Alzheimer's disease. Journal of Neuropsychiatry and Clinical Neuroscience, 1995; 7:410.
62. Geldmacher DS, Rowland D, Riedel T. Age effects on letter cancellation tasks. Journal of the International Neuropsychological Society, 1995; 1:129.
63. Sukol RB, Geldmacher DS. Confirmation of three-dimensional visuospatial dysfunction in neglect and simultagnosia. Neurology, 1994; 44(suppl 2):A291
64. Geldmacher DS, Lerner AJ, Voci JM, Noelker EA, Somple LC, Whitehouse PJ. Treating functional decline in adults with Down's syndrome. Journal of Neuropsychiatry and Clinical Neuroscience, 1994; 6:312-313
65. Shuren J, Geldmacher DS, Heilman KM. Nonoptic Aphasia: Aphasia with preserved confrontation naming in Alzheimer's Disease. Neurology, 1993; 43(suppl 2):A404.
66. Shuren J, Geldmacher DS, Heilman KM. The direct route in naming as evidenced in a patient with Alzheimer's disease. Abstracts of the Academy of Aphasia, 1993.
67. Hills EC, Geldmacher DS. The effect of stimulus characteristics on visuospatial search quality following traumatic brain injury. Archives of Physical Medicine and Rehabilitation, 1992; 73:994.
68. Geldmacher DS, Hills EC. Visuospatial search quality following traumatic brain injury. Archives of Physical Medicine and Rehabilitation, 1992; 73:994.
69. Geldmacher DS, Heilman KM. Effect of upper vs. lower visual field on radial line bisections. Journal of Clinical and Experimental Neuropsychology, 1992; 14:35.
70. Geldmacher DS, Doty L, Heilman KM. Attentional bias in normal elderly subjects on a letter-cancellation task. Neurology, 1991; 41(suppl.):211.

71. Horel JA, Geldmacher DS, Cirillo R, George P. A comparison of the effects of reversible cold lesions in different parts of the inferotemporal cortex on the performance of visual tasks. Society for Neuroscience Abstracts, 1986; 12(1):744.

MISCELLANEOUS:

A. Curriculum Development: National Continuing Medical Education Courses

1. Program Chair for "Prepackaged CME" construct, in collaboration with Physicians Institute for Excellence in Medicine, Georgia Medical Society, and American Academy of Physician Education - 2010
2. Course Director, "Management of behavioral comorbidities in dementia" (American Academy of Physician Education- CME Provider) – 2009
3. Course Co-Director, "Improving the Management of Alzheimer's Disease in Residential Care" National CME/CEU Program in conjunction with American Society of Consulting Pharmacists (AKH, Inc.-CME provider) - 2008
4. Course Director, "Advances in Alzheimer's and Dementia: Benchmarks in Diagnosis and Treatment" National CME Program, PeerView Institute (University of Michigan-CME Provider) – 2008
5. Course Co-Director, "Meet the Experts Interactive Case-Based Web Conferences: Evidence-Based Patient Case Studies in Alzheimer's Disease," Academic Alliances in Medical Education, Inc. (Tulane University-CME provider) – 2007
6. Course Director, "Optimizing Medical Management for Alzheimer's Disease." American Academy of Physician Education- CME Provider – 2007
7. Course Director, "Evidence-Based Strategies for Managing Alzheimer's Disease," National CME Program. Collaboration of American Academy of Family Practice state chapters and Academic Alliances in Medical Education, Inc. (Tulane University-CME provider) -2007

B. Enduring Materials Development

1. Member, Medical Advisory Board, Emmi Inc. Web-based programming for caregiver education in dementia.
2. Screenwriter – *Realities of dementia*. Scripted scenes of patient interactions with family and providers for video vignettes in support of CME programming.
3. Author – Knowledge Assessment, Contemporary Diagnosis and Management of Alzheimer's Dementia First edition 2003: Newtown, Pennsylvania: Handbooks in Health Care, Co. (ISBN# 1-931981-16-7) Accredited through University of Virginia CME Office; Accreditation period 2003-2006
4. Supplement Editor – Dementia Update: Overview from the First Annual Dementia Congress; Journal of the American Geriatrics Society 2003;51 supplement:S281-S326; CME supplement. Accredited through Academy for Healthcare Education; Accreditation period 2003-2005

5. Co-Chair, Editorial Board; ADvantage (National Alzheimer's Disease CME Program); Accredited through Johns Hopkins University CME office; Accreditation period 2000-2004
- C. Health Education Video.** "Sometimes I Need a Helping Hand" -2001.
- Script for video-tape program for self instruction of caregivers of patients with Parkinson's disease. (Awarded first place in Northern Ohio film festival for instructional/educational material)
- D. Community Service Activities**
1. Member, Advisory Board, Alzheimer's of Central Alabama, 2012-current
 2. Member, Professional Advisory Board, Alzheimer's Association Greater Cleveland Chapter, Cleveland, Ohio, 1996-2002
- E. Community Lectures**
1. Neuroscience Café (sponsored by UAB Comprehensive Neuroscience Center)
Hoover, AL, February 2016
 2. Osher Lifelong Learning Institute – Birmingham Chapter
Vestavia Hills, AL, February 2016
 3. Neuroscience Café (sponsored by UAB Comprehensive Neuroscience Center)
Hoover, AL, March 2015
 4. Osher Lifelong Learning Institute – Birmingham Chapter
Vestavia Hills, AL, March 2015
 5. New Horizons senior learning (sponsored by UAB Comprehensive Neuroscience Center;
Birmingham AL, January 2015
 6. Osher Lifelong Learning Institute – Auburn Chapter
Auburn, AL, March 2015
 7. Featured Speaker (with Elizabeth Crooks, RN,DNP), Family Caregiver Educational Seminar, Fairhope, AL, July 2014
 8. Invited Speaker, Alzheimer's in Alabama, Community Conference, Birmingham, AL, June 2014
 9. Keynote Speaker, Twelfth Annual Lucy & John Caddell Alzheimer's Conference, Decatur, AL, April 2014
 10. Invited Speaker (with Elizabeth Crooks, RN, MSN), Canterbury-Beeson Forum on Aging, Birmingham, AL August 2013
 11. Keynote Speaker, Nolan-Stewart Educational Conference on Dementia, Birmingham, AL, July 2013
 12. Keynote Speaker, Alzheimer's Educational Conference, Dothan AL, March 2012
 13. Speaker, Canterbury-Beeson Forum on Aging, Birmingham, AL August 2011
 14. Speaker, Central Alabama Aging Consortium's 9th Annual Alzheimer's Professional & Caregiver Conference, Montgomery, AL August 2011
 15. Guest Lecturer, Jefferson Institute for Lifelong Learning,–Charlottesville, VA 2006, 2007
 16. Featured Speaker Alzheimer's Association Educational Conference, Charlotte, NC 2005

17. Keynote Speaker – Alzheimer's Association Community Conferences (Virginia Chapters)
 - a. Petersburg, Va 2008
 - b. Norfolk, Va 2004
 - c. Richmond, Va, 2004
 - d. Harrisonburg Va, 2003

**Dr. Stephan Anthony
Mayer**

4/6/17

Curriculum Vitae**STEPHAN ANTHONY MAYER, MD, FCCM****PERSONAL DATA**

Date of Birth	September 22, 1962
Place of Birth	New York, NY
Citizenship	U.S.A.
Office Address	Chair, Department of Neurology Henry Ford Health System 2799 West Grand Boulevard Detroit, MI 48202 Phone: (313) 916-7056 E-mail: smayer2@hfhs.org
Home Address	346 Convent Avenue New York, NY 10031-4201

**ACADEMIC
TRAINING**

1984	Brown University, A.B. (Biology)
1988	Cornell University Medical College, M.D

**POSTDOCTORAL
CLINICAL
TRAINING**

Presbyterian Hospital in the City of New York

1988-89	Intern, Department of Medicine
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*Neurological Institute of New York,
Columbia-Presbyterian Medical Center*

1989-92	Resident in Neurology
1992-94	Fellow in Critical Care Neurology

**CERTIFICATION
& LICENSING**

2008	Diplomate, Neurocritical Care, United Council of Neurological Subspecialties
2000	NIH Stroke Scale Certification, National Stroke Association
2000	Good Clinical Practice Certification, Office of Clinical Trials, Columbia University
1993	American Board of Psychiatry and Neurology, Inc. #38657

**PROFESSIONAL
SOCIETIES**

1990	New York State Medical License, #182231
1989	National Board of Medical Examiners #362429
1988	BLS/ACLS, American Heart Association
2003	Neurocritical Care Society (Charter Member)
2002	American Neurological Association
1996	American Stroke Association
1995	Society of Critical Care Medicine <i>Neuroscience Section</i>
1990	American Academy of Neurology <i>Critical Care and Emergency Neurology Section</i>
1988	American Medical Association

**ACADEMIC
APPOINTMENTS***Icahn School of Medicine at Mount Sinai*

2014-15	Founding Director, Institute for Critical Care Medicine
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2014-16	Professor of Neurology and Neurological Surgery
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Columbia University College of Physicians & Surgeons

2009-14	Professor of Neurology and Neurological Surgery
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2001-09	Associate Professor of Clinical Neurology and Neurological Surgery
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1995-01	Assistant Professor of Neurology (in Neurological Surgery)
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1994-95	Assistant Professor of Neurology
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1994	Associate in Neurology
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1992-94	Postdoctoral Clinical Fellow
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**HOSPITAL
APPOINTMENTS***Henry Ford Health System*

2017- Chair, Department of Neurology

Mount Sinai Health System

2015-16 Director, Neurocritical Care

2014-16 Attending Neurologist

*New York Presbyterian Hospital at
Columbia University Medical Center*

2009-14 Attending Neurologist

2001-09 Associate Attending Neurologist

1994-14 Director, Neurological Intensive Care Unit

1994-01 Assistant Attending Neurologist

1994 Associate Neurologist

1992-94 Clinical Assistant Neurologist

**HONORS AND
AWARDS**

2014 Lifesaver Award, American Heart Association, New York City Chapter

2011 12th Annual Terrance D. Capistrant Lecture, Saint Joseph's Hospital, HealthEast Care System, St Paul, MN

2011 International Pan Arab Critical Care Medicine Society Lifetime Achievement Award

2007 Mintz Stroke Lecturer, Department of Neurology, Mt Sinai School of Medicine, New York, NY

2006 Elected as Fellow of the American College of Critical Care Medicine

- 2005 The Fifth Miss J Mithili Oration, Third National Workshop on Critical Care Neurology, CARE Foundation and CARE Hospital, Hyderabad, India.
- 2005 Distinguished Lecturer Award, Zeenat Qureshi Stroke Research Center, University of Medicine & Dentistry of New Jersey
- 2003- Best Doctors, New York Metropolitan Region, Neurology/Neurocritical Care, Castle & Connolly
- 2003- Best Doctors in America
- 2003 Society of Critical Care Medicine 2003 Neuroscience Specialty Award
- 2002 Elected to American Neurological Association
- 2000 The 279th Luis E. Guerrero Memorial Lecture, University of Santo Tomas, Faculty of Medicine and Surgery, Manilla, Philippines
- 1996 Fellow, Stroke Council, American Heart Association
- 1991 Columbia P&S Class of 1992 Resident Teaching Award
- 1988 The Dr. Harold Lamport Biomedical Research Prize, Cornell University Medical College
- 1988 Public Health Research Prize, Cornell University Medical College

RESEARCH SUPPORT

Active (Mount Sinai)

- 2016- SHINE: Stroke Hyperglycemia Insulin Network Effort
National Institutes of Health/NINDS
Role: Local PI
Total Award: \$30,000 (contractual, active as of March 2016)
- 2016- NEWTON-2: Nimodipine Microparticles for SAH
Edge Therapeutics
Role: Steering Committee, Local PI
Total Award: (contractual, anticipated start date July 2016)
- 2016- ASSENT: Novel TAFI-inhibitor thrombolytic for AIS

Daiichi-Sankyo

Role: Local PI

Total Award: (contractual, anticipated start date July 2016)

2016- STATUS: Allopregnanolone for Super Refractory Status Epilepticus

SAGE Pharmaceuticals

Role: Local PI

Total Award: (contractual, active as of April 2016)

2016- Phase 1B Trial of rFXa for Ultra-Early Hemostasis in Acute ICH

Pfizer

Role: Steering committee, Local PI

Total Award: (contractual, anticipate dstart date July 2016)

Past (Columbia)

2013-14 SHINE: Stroke Hyperglycemia Insulin Network Effort

National Institutes of Health/NINDS

Role: Local PI

Total Award: \$300,000 (No.1 enrolling US site)

2012-14 ICTUS-3: Intravascular Cooling in the Treatment of Stroke

National Institutes of Health/NINDS

Role: Local PI

Award: \$36,000 (contractual)

2012-13 Seizure Detection in Critically-Ill Patients

General Electric (Finland)

Role: PI

Award; \$200,000

2012-14 ATACH-II Trial of Antihypertensive Therapy for Intracerebral Hemorrhage

National Institutes of Health/NINDS

Role: Local PI

Award: \$148,000 (contractual, No. 3 enrolling US site)

2011-13 Validation of a Non-Invasive Ultrasound System for Estimating Intracranial Pressure

Non-Invasive Medical Systems, Inc.

Role: Principal Investigator

Total Award: \$50,000

2010-12 PROTECT-3 Trial of Progesterone for Traumatic Brain Injury

- National Institutes of Health/NINDS*
Role: Local PI
Award: \$28,000 (contractual)
- 2010-12 CLEAR-3 IVH Trial of Thrombolysis for Intraventricular Hemorrhage
National Institutes of Health/NINDS
Role: Local PI
Total award: \$36,000 (contractual)
- 2009-12 Neurocritical Care Multimodality Monitoring and Neuroinformatics Development Grant
Dana Foundation
Role: Principal Investigator
Total Award: \$150,000
- 2007-14 New York Presbyterian Neurological Emergencies Treatment Trials (NETT) Clinical Site Hub
National Institutes of Health/NINDS
U01-NS59062-01
Role: Principal Investigator
Award: \$1,250,000
- 2007-13 Columbia SPOTRIAS Clinical Center Grant
National Institutes of Health/NINDS
P50-NS049060
Role: Co-Investigator
Total Award (R.S. Marshall, PI): \$1,254,499
- 2011-12 ALIAS-2 Trial of Albumin for Acute Ischemic Stroke
National Institutes of Health/NINDS
Role: Local PI
Award: \$50,000 (contractual)
- 2009-11 Critical Care Neurology for Emergency Physician Pathway Project
New York State Department of Health
Role: Co-Mentor
Total Award; \$100,000
- 2007-09 Research Fellowship in Multimodality ICU Monitoring
Empire Clinical Research Investigator Program
Role: Sponsor-Mentor
Award: \$120,000
- 2007-09 STAT: Studying the Treatment of Acute Hypertension

University of Massachusetts Outcomes Research Center

Role: Steering Committee, local PI

Award: \$35,000

- 2006-08 CLEAR-2 Intraventricular Hemorrhage Thrombolysis Trial
(FD-R-001693-06, IND 8923)
U.S. Food and Drug Administration
(D. Hanley, PI)
Role: Co-Investigator, Executive Committee Member
Award: \$20,700/yr (contractual)
- 2001-7 A Multi-Center Phase II/III, Double-Blind, Controlled Dose-Escalation Study to Evaluate the Efficacy and Safety of Recombinant Factor VIIa (Novo-Seven®) for Preventing Early Hematoma Growth in Acute Intracerebral Hemorrhage (IND 8893)
Novo Nordisk A/S, Copenhagen, Denmark
Role: Principal Investigator; Chairman, Steering Committee
Total Award: \$560,000
- 2007-09 Neurocritical Care Multimodality Monitoring and Neuroinformatics Development Grant
Dana Foundation
Role: Principal Investigator
Total Award: \$200,000
- 2003-4 Research Fellowship in Neurocritical Care Outcomes Research
Empire Clinical Research Investigator Program
Role: Sponsor-Mentor
Award: \$60,000
- 2001-05 Investigation of the Natural History of West Nile Virus Infection in Patients with or At Risk For Progression to West Nile Virus Encephalitis and/or Myelitis
NIH/DMID
Role: Investigator
Award: \$10,000/year (contractual)
- 2000-03 Intraventricular Hemorrhage Thrombolysis Trial (IND 8923)
U.S. Food and Drug Administration
(D. Hanley, PI)
Role: Co-Investigator, Executive Committee Member
Award: \$50,700/yr (contractual)

- 2001-05 A Phase III Double-Blind, Placebo-Controlled Trial of Long Term therapy of Herpes Simplex Encephalitis (HSE): An Evaluation of Valacyclovir
NIH/NIADS
Role: Investigator (5% effort)
Award: \$25,000/yr (contractual)
- 2003-04 Fasudil SAH Clinical Trial Planning Grant
Berlex/Specialized Therapeutics
Role: Principal Investigator
Award: \$35,000
- 2001-03 Pharmacokinetic Sub-Study: Intraventricular Hemorrhage Thrombolysis Trial (FD-R-001693-03, IND 8923)
U.S. Food and Drug Administration
Role: Co-Investigator, Executive Committee Member
Award: \$21,141 (contractual)
- 2002-03 Clinical Trial of a Novel Water-Circulating Cooling System for Treating Medically Refractory Fever in Critically-Ill Neurologic Patients
Medivance, Inc.
Role: Principal Investigator
Award: \$35,000
- 1998-00 Cognitive Dysfunction and Quality of Life After Subarachnoid Hemorrhage.
American Heart Association Grant-in-Aid Award
#9750432N
Role: Principle Investigator
Award: \$165,000
- 1999 Clinical Trial of an Air-Circulating Cooling Blanket for Treating Fever in Critically Ill Neurologic Patients
Augustine Medical International
Role: Principal Investigator
Award: \$5,000
- 1996-97 Comparison of Acetazolamide-Activated SPECT with Transcranial Doppler Sonography for Predicting Delayed Ischemia from Vasospasm after Subarachnoid Hemorrhage.
Du Pont Pharma Clinical Research Award
Role: Principle Investigator
Award: \$15,000
- 1995-96 Systemic Hypothermia for Acute Cerebral Infarction:

A Pilot Study.

Columbia-Presbyterian Clinical Trials Pilot Study Award

Role: Principle Investigator

Award: \$50,000

1993-95 Perilesional Ischemia in Acute Intracerebral Hemorrhage:
A SPECT Study.

National Stroke Association Research Fellowship Award

Role: Principle Investigator

Award: \$60,000.

1987-88 GM1 Ganglioside in Experimental Focal Ischemia

NIH Medical Student Research Fellowship

Award: \$4,000

1985 CNS Autoantibodies in Autism

New York State Medical Student Research Grant

Award: \$3,000

**DEPARTMENTAL,
HOSPITAL, AND
UNIVERSITY
COMMITTEES**

Mount Sinai

2015-16 Co-Chair, Cardiopulmonary Arrest Committee

2015-16 Neuroscience RED (reduce excess days) Committee

2015-16 Chair, Mount Sinai Health System Quality Leadership
Council Stroke Subcommittee

Columbia University

2002-4 Executive Committee, Society of Practitioners,
Columbia-Presbyterian Medical Center

1998-02 Chair, Multidisciplinary Neuroscience Length of Stay
Committee, CUMC

1998-00 Department of Neurology Practice Plan Committee, CUMC

1996-01 Clinical Operations Council, CUMC

1994-97 Research Committee, Columbia-Presbyterian Practitioners
Network

1994-97 Cardiac Arrest Committee, CUMC

1994-14 Inter-ICU Committee, CUMC

1994-14 Executive Committee, Dept. of Neurology, CUMC

1994-01 Resident Selection Committee, Dept. of Neurology, CUMC

1991-92 Housestaff Affairs Committee, CUMC

1990-91 Quality Assurance Committee, Dept. of Neurology, CUMC

TEACHING ACTIVITIES

Medical School Lectures

2000-2 Guest Lecturer, Medical School Neuroscience Course,
1st year students, Columbia P & S

1998-00 Guest Lecturer, Human Pathophysiology Course,
2nd year students, Columbia P & S

1990-98 1st Year Medical Student Clinical Teaching Seminars,
Neuroscience Course, Columbia P & S

Neurocritical Care Fellowship Trainees

Icahn School of Medicine at Mount Sinai

2016 Pavis Langkejval, MD

2016 Kaitlin Reilly, MD

2015-17 Anil Remini, MD

2015-17 Javaad Ahmad, MD

2014-16 Moshe Mizrahi, MD, Assistant Professor, Neurocritical Care
and Comprehensive Epilepsy Programs, University of
Cincinnati, Cincinnati, OH

Columbia University Medical Center

2013-14 Jeremy Ragland, MD, Assistant Professor, University of Texas
at Houston, Attending neurointensivist, Hermann Memorial
Medical Center, Houston, TX

- 2013-14 Shouri Lahiri, MD, Assistant Professor, attending neurointensivist, Cedars-Sinai Medical Center, Los Angeles, CA
- 2013-14 Fawaz Al-Mufti, MD, Interventional Neuroradiology Fellow, Rutgers University, New Jersey Medical School
- 2012-14 Neha Danganayach, MD, Assistant Professor, attending neurointensivist, Icahn School of Medicine at Mount Sinai, New York, NY
- 2012-14 Chris Zammitt, MD, Assistant Professor, Neurocritical Care and Department of Emergency Medicine, University of Rochester, Rochester, NY
- 2012-14 Brandon Foreman, MD, Assistant Professor, Neurocritical Care and Comprehensive Epilepsy Programs, University of Cincinnati, Cincinnati, OH
- 2012-14 Barry Czeisler, MD, Assistant Professor, Attending Neurointensivist, NYU Medical Center, New York, NY
- 2012-14 Michael Crimmins, MD, Attending, Interventional Neuroradiology and Neurocritical Care, Walter Reade Medical Hospital, Bethesda, MD
- 2011-13 Alan Velander, MD, Attending neurointensivist, Swedish Medical Center, Seattle, WA
- 2011-13 Aaron Lord, MD, Assistant Professor, Attending neurointensivist, NYU Medical Center, New York, NY
- 2011-13 Andres Fernandez, MD, Assistant Professor, Attending neurointensivist, Thomas Jefferson School of Medicine, Philadelphia, PA
- 2010-12 Sachin Agarwal, MD, Assistant Professor, Columbia University, Attending neurointensivist, New York Presbyterian Hospital/Columbia, New York, NY
- 2010-12 Gunjan Parikh, MD, Assistant Professor, Departments of Neurology and Surgery, University of Maryland, Attending neurointensivist, Maryland Shock Trauma, Baltimore, MD

- 2009-12 Emily Gilmore, MD, Assistant Professor, Yale University School of Medicine, Attending neurointensivist, Yale New Haven Medical Center, New Haven, CT
- 2009-12 Alex Choi, MD, Assistant Professor, University of Texas at Houston, Attending neurointensivist, Hermann Memorial Medical Center, Houston, TX
- 2010-12 Gregory Kapinos, MD, Assistant Professor, Hofstra School of Medicine, Attending neurointensivist, North Shore University Hospital, Manhasset, NY
- 2009-12 Santiago Ortega, MD, Asstant Clinical Professor, Interventional Neuroradiology and Neurocritical Care, University of Iowa, Iowa City, IA
- 2009-11 Cappi Lay, MD, Assistant Professor, Departments of Emergency Medicine and Neurosurgery (Neurocritical Care), Mount Sinai, New York
- 2008-11 Guillermo Linares, MD, Interventional Neuroradiology and Critical Care Attending, Temple University School of Medicine, Philadelphia, PA
- 2008-11 Viktor Szeder, MD, PhD, Assistant Professor, Interventional Neuroradiology, Department of Neuroradiology, David Geffen School of Medicine, University of California, Los Angeles, California
- 2008-10 Khalid Hanafy, MD, Attending Neurointensivist, Assistant Professor, Beth Israel Deaconess Hospital, Harvard Medical School, Boston, MA
- 2008-10 Matthew Vibbert, MD, Attending Neurointensivist, Assistant Professor, Thomas Jefferson School of Medicine, Philadelphia, PA
- 2008-10 Rishi Malhotra, MD, Attending Neurointensivist, Assistant Professor, Albert Einstein College of Medicine, Bronx, NY
- 2007-08 David Seder, MD. Director of Neurocritical Care, Assistant Professor, Tufts University School of Medicine, Maine Medical Center, Portland, ME
- 2007-08 Jan Claassen, MD. Director, Neuro-ICU, Associate Professor, Columbia University Medical Center, New York, NY

- 2006-08 Errol Gordon, MD. Current position: Attending neurointensivist, Director, Neuro-ICU, Assistant Professor, Department of Neurosurgery, Mount Sinai School of Medicine, New York, NY
- 2005-08 Fred Rincon, MD. Attending, Assistant Professor, Neurocritical Care, Jefferson Medical College, Philadelphia, PA
- 2006-07 Michael Moussouttas, MD. Attending neurointensivist, Capital Health, Trenton, NJ
- 2004-07 Richard Temes, MD. Director, Neurocritical Care, Northwell Health System, Manhasset, NY
- 2004-06 Katja E. Wartenberg, MD. Attending Neurointensivist, Martin Luther University, Halle-Wittenberg, Germany
- 2004-06 Jennifer Frontera, MD. Co-Director, Neuro-ICU, Associate Professor, Department of Neurology and Neurocritical Care, Cleveland Clinic, Cleveland, OH
- 2002-04 Nazli (Sophia) Janjua, MD. Neurointerventional Radiologist, Lakewood Regional Medical Center, Lakewood, CA
- 2002-04 Andrew Naidech, MD, MPH. Director, Neurological Intensive Care Unit, Assistant Professor, Departments of Neurology and Anesthesiology, Northwestern Medical Center, Chicago, IL
- 2001-02 Brian-Fred Fitzsimmons, MD. Attending Physician, Interventional Neuroradiology, Assistant Professor, Departments of Radiology and Neurology, University of Wisconsin Medical Center, Milwaukee, WI
- 2001-02 Dileep Yavagal, MD. Attending Interventional Radiologist and Neurointensivist, Assistant Professor, Department of Neurology, University of Miami, Miller School of Medicine, Miami, FL.
- 2000-01 Adam Mednick, MD. Attending Neurologist, St. Raphaels Hospital, New Haven, CT
- 1999-00 Axel Rosengart, MD. Director, Neurological Intensive Care Unit, Associate Professor, Departments of Neurology and Neurosurgery, Cedars Sinai Medical Center, Los Angeles, CA

- 1999-00 Lyle Dennis, MD. Director, Neurology, Good Samaritan Hospital, Suffern, NY
- 1998-99 Mark Gorman, MD. Attending Neurologist, Cerebrovascular and Critical Care Neurology, Assistant Professor, Department of Neurology, University of Vermont Medical Center, Burlington, VT.
- 1997-99 Christopher Commichau, MD. Director, Stroke and Critical Care, Neurology Residency Director and Associate Professor, Departments of Neurology and Neurosurgery, University of Vermont Medical Center, Burlington, VT.
- 1996-97 Gary L. Bernardini, MD, PhD. Chairman, Neurology; Stroke and Neurocritical Care; Associate Professor, Weil Cornell Medical School, NY, NY
- 1995-96 Rupendra Swarup, MD. Director, Neurological Intensive Care Unit, Roosevelt Hospital, New York, NY.
- 1994-96 Carole E. Thomas, MD. Private practice neurologist, Princeton, NJ.

Neurocritical Care Research Fellows

- 2014-16 Charles Francoeur, MD. Interim Position: Attending Intensivist, University of Montreal, Canada.
- 2013-14 Sureerat Suwatcharangkoon, MD. Interim Position: Division of Neurology, Department of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- 2012-14 Gian Marco DeMarchis, MD. Interim Position: Neurology Clinic, Inselspital Bern, Bern, Switzerland.
- 2012-13 Deborah Pugin, MD. Attending Intensivist, Geneva University Hospital, Geneva, Switzerland
- 2011-12 Sang-Beom Jeon, MD, PhD. Interim Position: Stroke and Neurocritical Care, Asan Medical Center, Seoul, Korea
- 2011-12 Andres Reccius, MD, MSc. Interim Position: Fellow in Intensive Care Medicine, Clinica Almava, Universidad del Desarrollo, Santiago, Chile

- 2011-12 Younsuk Lee, MD, PhD. Interim Position: Professor, Stroke and Neurocritical Care, Department of Neurology, Dongsuk University, Korea
- 2011 Min Li, PhD. Interim Position: Department of Neurosurgery, Tangdu Hospital, The Fourth Military Medical University, Xi'an, China
- 2009-11 Sang-Bae Ko, MD. Interim Position: Clinical Assistant Professor of Medicine, Seoul National Hospital, Seoul, Korea
- 2009-11 Raimund Helbok, MD. Current Position: Assistant Professor, Clinical Department of Neurology, Neurological Intensive Care Unit, Medical University of Innsbruck, Innsbruck, Austria
- 2007-08 Mellanie Springer, BA, Albert Einstein College of Medicine Senior Research Fellowship
- 2007-09 Pedro Kurtz, MD. Current Position: Staff Physician, IntensiveCare Unit, Casa de Saúde São Jose, Rio de Janeiro, Brazil
- 2007-10 Emmanuel Carrerra, MD. Current Position: Assistant Professor, Department of Neurology, CHUV Hospital, Lausanne, Switzerland
- 2007-11 Mauro Oddo, MD. Current Position: Assistant Professor, Medical Intensive Care Unit, CHUV Hospital, Lausanne, Switzerland.
- 2006-07 Manuel Buitrago Blanco, MD. Current position: Assistant Professor, UCLA Geffen School of Medicine.
- 2000-03 Jan Claassen, MD. Current position: Attending Neurointensivist, Director, Neuro-ICU, Columbia University Medical Center, New York, NY.
- 1998-99 Johnny Lokin, MD. Current position: Attending Neurointensivist, University of Santo Tomas, Faculty of Medicine and Surgery, Manilla, Philippines

Clinical Neuropsychology PhD Thesis Supervisory Committee, The Graduate School and University Center, City University of New York

- 2006 Luba Nakhutina, PhD. Thesis title: “The Effect of Educational Attainment on Cognitive Performance and Recovery in Patients with Subarachnoid Hemorrhage”
- 2006 Shelly Peery, PhD. Thesis title: “Recovery of Neuropsychological Functioning after Subarachnoid Hemorrhage”

PROFESSIONAL ACTIVITIES

National Institutes of Health

- 2011 Co-chair, Hemorrhage Section, *NINDS Stroke Progress Review Group (SPRG)*
- 2009 NINDS Stroke Common Data Elements Working Group
- 2006 Co-chair, Hemorrhage Section, *NINDS Stroke Progress Review Group (SPRG)*
- 2003-7 CDIN Study Section (ZRG1 BDCN-3)
NIH Center for Scientific Review
- 2003 Advisory Panel, Priorities for Clinical Research in the Treatment of Acute, Non-Traumatic Intracerebral Hemorrhage, *NIH/NINDS*
- 2004 Advisory Panel, Emergency Neurology Clinical Trials Network, *NIH/NINDS*
- 2004 Presenter, *Brain Attack Coalition*, “Logistical and Regulatory Barriers to Acute Stroke Research”

American Heart/Stroke Association

- 2012 Member, AHA NYC Stroke Task Force
- 2012 Member, AHA National Stroke Performance Measures Oversight Committee
- 2011 Peer reviewer, *Guidelines for the Management of Aneurysmal Subarachnoid Hemorrhage*
- 2011 Stroke Performance Measures Oversight Committee
- 2009 Peer reviewer, *Metrics for Measuring Quality of Care in Comprehensive Stroke Centers*

- 2007-09 Cerebrovascular Early Career Development Committee
- 2006-08 Brain One Study Section
- 2007 Peer reviewer, *Guidelines for the Management of Spontaneous Intracerebral Hemorrhage*
- 2006- Abstract reviewer, AHA International Stroke Conference, 2006, 2007, 2009

American Academy of Neurology

- 2010-12 Course Director, *Acute Stroke Alert Skills Workshop*
American Academy of Neurology Annual Meeting
- 2001-8 Member and Chair of Science Subcommittee, Executive Committee, Section of Critical Care and Emergency Neurology
- 1999- Abstract reviewer, Critical Care/Emergency Neurology, AAN Annual Meeting
- 1999-02 Course Director, *Controversies in Critical Care*
American Academy of Neurology Annual Meeting
- 1994- Member, Critical Care and Emergency Neurology Section

Neurocritical Care Society

Officer Positions

- 2009-11 President
- 2007-9 Vice President
- 2005-7 Treasurer
- 2003-13 Board of Directors
- 2002 Acting President

Committees

- 2016- NCS Fundraising Task Force

2011-13 Chair, Nominating Committee

2011-13 Chair, Liason Committee

2004-7 Chair, Fundraising Committee

2003-13 Executive Committee

2003-13 Board of Directors

2010-15 Research Committee

2002-3 Co-Chairman, Communications Committee

2002 Founding Committee

Annual Meeting Program Committee:

2003 Inaugural Meeting, Phoenix AZ, February 15th and 16th

2004 2nd Annual Meeting, San Diego CA, February 6th and 7th,

2005 3rd Annual Meeting, Scottsdale, AZ, February 25-27,

2008 Chair, Scientific Program Committee, 6th Annual Meeting,
Miami, FL, October 23-25

2009 Chair, Scientific Program Committee, 7th Annual Meeting,
New Orleans, LA, November 11-14

Society of Critical Care Medicine

2001- Abstract reviewer, Neurosciences Section, SCCM Annual Meeting

2001- Professor's Walk Rounds, Neuroscience Poster Session, Annual Meeting: 2001, 2004, 2008

European Society of Intensive Care Medicine

2007 Abstract reviewer
21st Annual Congress

Brain Trauma Foundation

2014 External Peer Reviewer, *Guidelines for the Management of Severe Traumatic Brain Injury, 4th Edition*

Fire Department of New York

2009-11 New York City Fire Department Cardiovascular Quality Assurance Committee

Greater New York Hospital Association

2007- Greater New York Critical Care Leadership Council

New York State Task Force of Life and the Law

2010 Expert Panel of Brain Death Guidelines

World Congress of Neurology

2005 Abstract reviewer (cerebrovascular disease), WCN2005

Journal/Editorial Activities

Editorial Board

2013- International Journal of Stroke

2010- Therapeutic Hypothermia

2004-10 Neurocritical Care

Co-Founder and Associate Editor

2004-9 Neurocritical Care

2015- Neurocritical Care

Section Editor

2011-13 Current Opinion in Critical Care, Neuroscience Section

2006-11 Stroke (Critical Care)

2000- Current Neurology and Neuroscience Reports (Critical Care)

Contributing Editor

2000-5 Journal Watch: Neurology

Ad Hoc Reviewer

2016 Emergency Medicine Practice

2016 Annals of Intensive Care

2015 PLOS ONE

2015 JAMA

2014 British Medical Journal

2011 Nature Reviews Neurology
 2011 European Journal of Neurology
 2009 Resuscitation
 2009 Lancet Neurology
 2009 Critical Care
 2009 Clinical Neurology and Neurosurgery
 2007 Circulation
 2007 The Journal of Neuropsychiatry and Clinical Neurosciences
 2007 Intensive Care Medicine
 2006 Journal of Neurology Neurosurgery and Psychiatry
 2006 The Lancet
 2006 Pharmacy & Therapeutics
 2006 Canadian Journal of Neurological Sciences
 2006 Metabolism
 2005 Cerebrovascular Diseases
 2003 Neurocritical Care
 2003 Critical Care Medicine
 2003 Journal of Intensive Care Medicine
 2003 Journal of Critical Care
 2003 Anesthesiology
 2003 International Journal of Cardiology
 2002 Annals of Neurology
 2001 Archives of Neurology
 2001 Clinical Endocrinology
 2000 Journal of Cerebral Blood Flow and Metabolism
 1999 Journal of the Neurological Sciences
 1999 Neurosurgery
 1999 Stroke
 1998 Journal of Neurosurgical Anesthesiology
 1996 Epilepsia
 1996 Journal of Intensive Care
 1996 Neurology
 1995 New England Journal of Medicine

American Board of Neurological Surgery

1995-96 Contributor, Board Examination (Neurocritical Care)
American Board of Neurological Surgery

Invited External Grant Review and Study Sections

2011 Ad hoc reviewer, Section on muscle inflammatory diseases and diseases of the neuromuscular junction, *Association Française contre les Myopathies*

- 2009 External reviewer, Randomized Controlled Trials panel A (RNA), *Canadian Institute of Health Research*,
- 2009 Comparative Effectiveness Review of recombinant activated factor VIIa, *US Agency for Health Care Quality and Research*
- 2012 NASA Smart Technology Crew Health Study Section. *National Aeronautics and Space Administration*
- 2012 External reviewer, Dutch Organization for Health Research and Development (ZonMw)

Consultant to Private Enterprise

- 1998-07 Scientific Consultant, *NovoNordisk A/C, Copenhagen, Denmark*
- 1999-07 Scientific Advisory Board, *Radiant Medical, Redwood City, CA* (hypothermia technology)
- 2001-03 Scientific Advisory Board, *Seacoast Technologies, Hampton Falls, NH* (hypothermia technology)
- 2002-03 Haemostasis.com Advisory Board, *NovoNordisk A/C, Copenhagen, Denmark*
- 2003-04 Scientific Consultant, *Specialized Therapeutics, Berlex/Schering AG, Princeton, NJ*
- 2003-07 Scientific Consultant, *CoAxia, Inc., Minneapolis, MN*
- 2003-12 Scientific Consultant, *Medivance Inc., Louisville, CO*
- 2002- Scientific Consultant, *Actelion Pharmaceuticals, Allschwil, Switzerland*
- 2004-6 Scientific Advisory Board, *Remedy Pharmaceuticals, New York, NY*
- 2006-7 Scientific Consultant, *BrainZ Instruments, Auckland, New Zealand*
- 2010-12 Medical Safety Consultant, *Novartis Pharmaceuticals, Cambridge, MA*

- 2010- Scientific Advisory Board, *Orsan Technologies, Tel Aviv, Israel*
- 2010-12 Scientific Consultant, *General Electric Healthcare, Helsinki, Finland*
- 2011-14 Scientific Consultant, *Sanofi-Aventis, Paris, France*
- 2011- Scientific Advisory Board, *Neuroptics, Inc., Irvine, CA*
- 2012- Scientific Consultant, *Bard Medical, Louisville, CO*
- 2012- Scientific Consultant, *Pfizer, New York, NY*
- 2014- Scientific Consultant, *Stryker Neurovascular*
- 2014- Scientific Consultant, *Medtronic/Covidien Neurovascular*
- 2015- Scientific Advisory Board, *Cryothermic Systems, Cleveland, OH*
- 2016- Scientific Consultant, *Sage Pharmaceuticals, Boston, MA*

Consultant to Academia

- 2003 Neurocritical Care Consultant, *Hahnemann-MCP School of Medicine, Philadelphia, PA*
- 2005 Neurocritical Care Consultant, *SUNY Stony Brook, Stony Brook, NY*
- 2009 Neurocritical Care Consultant, *University of North Carolina School of Medicine, Chapel Hill, NC*

Invited Panels

- 1999 Tirilizad SAH Evaluation Panel, *Upjohn-Pharmacia*
- 2001 NovoSeven Advisory Panel, *NovoNordisk A/S, Frankfurt, Germany*
- 2002 International Advisory Board for the Development of Fasudil, New York, NY, *Specialized Therapeutics, Berlex/Schering AG*

2002	First International NovoSeven CNS Advisory Panel, San Francisco, CA, <i>NovoNordisk A/S</i> ,
2003	Precedex Multidisciplinary Advisory Panel, Palm Springs, CA, <i>Abbot Laboratories</i>
2003	Nicardipine Advisory Panel, New York, NY, <i>ESP Pharma</i>
2004	Second International NovoSeven CNS Advisory Panel, San Francisco, CA, <i>Novo Nordisk</i>
2004	Clevidipine Advisory Panel, New York, NY, <i>The Medicines Company</i> .
2005	rFVIIa Research and Development Advisory Panel, New York, NY, <i>Bayer Biologics, Inc.</i>
2005	3rd International NovoSeven CNS Advisory Panel, Sydney, Australia, <i>Novo Nordisk A/C</i>
2005	Co-Chair, Vasoactive Therapy Curriculum Planning Advisory Board, New York, NY, <i>Discovery Institute of Medical Education and PDL/ ESP Pharma</i>
2005	Co-Chair, Nicardipine Advisory Panel, Washington, DC, <i>PDL/ESP Pharma</i>
2006	Clevidipine Expert Advisory Panel, Montreal, Canada, <i>The Medicines Company</i>
2006	Systems for Stroke Care Advisory Board, New York, NY, <i>Novo Nordisk</i>
2007	4th International NovoSeven CNS Advisory Panel, Capetown, South Africa, <i>Novo Nordisk</i>
2007	Co-Chair, Cardene IV Advisory Board, San Francisco, CA <i>PDL BioPharma</i>
2008	Worldwide 3C Summit: Cleviprex Council on Control, New York, NY, <i>The Medicines Company</i>
2009	Co-Chair, Actelion North American Clazostentan Advisory Board, Chicago, IL, <i>Actelion Plarmaceuticals</i>

- 2010 Blood Pressure in Stroke Outcomes, Short Hills, NJ , *The Medicines Company*
- 2010 Cleviprex Partnership Summit, Miami, FL, *The Medicines Company*
- 2010 Perspectives in the Global Management of Stroke, Paris, France, *Sanofi-Aventis*
- 2010 North American Healthcare Technology Advisory Panel, New York, NY, *Sanofi-Aventis*
- 2011 Brevibloc Cardiovascular Advisory Panel, Short Hills, NJ, *Baxter Healthcare*
- 2011 Vaprisol Advisory Board, Hoboken, NJ, *Astellas Pharmaceuticals*
- 2011 Cleviprex Advisory Board, Parsippany, NJ, *The Medicines Company*
- 2011 Hypothermia Adisory Board, Denver CO, *Medicance/CR Bard*
- 2012 International Stroke Advisory Board, Miami FL, *Sanofi-Aventis*
- 2012 2012 TEG Expert Advisors Meeting, Chicago, IL *Haemonetics Corporation*
- 2012 Beriplex National Advisory Board, Philadelphia, PA *CSL Behring*
- 2013 Refractory Status Epilepticus Advisory Panel, Boston, MA *SAGE Therapeutics*
- 2013 Factor Xa ICH Advisory Panel, New York, NY *Pfizer*
- 2015 Therapeutic Temperature Modulation Expert Panel, *Bard Medical, New York, NY*
- 2015 UROS Cather Expert Panel, *Bard Medical, New York, NY*

Educational Programs and Conferences

- 1999- Course Director, *New York Symposium on Neurological Emergencies and Neurocritical Care*
1. New York Marriott Marquis, October 16, 1999
 2. New York Academy of Medicine, May 19, 2001
 3. New York Academy of Medicine, May 3-5, 2006
 4. New York Academy of Medicine, May 23-25, 2007
 5. New York Academy of Medicine, June 4-6, 2008
 6. New York Academy of Medicine, June 3-5, 2009
 7. New York Academy of Medicine, June 1-4, 2010
 8. New York Academy of Medicine, June 14-17, 2011
 9. New York Academy of Medicine, June 12-15, 2012
 10. New York Academy of Medicine, June 11-14, 2013
 11. New York Academy of Medicine, June 10-13, 2014
 12. New York Academy of Medicine, June 7-10, 2016
- 2007 Course Co-Director, *NYC Project Hypothermia*. The Greater New York Hospital Association, New York, NY, December 15, 2007
- 2008 Course Co-Director, *Monitoring Brain Chemistry During Neurointensive Care: State of the Art*. Sponsored by Columbia University and the Karolinska Institute, Scandinavia House, New York, NY, February 29, 2008.
- 2008 Steering Committee, *Therapeutic Temperature Management Conference*, Barcelona, Spain, October 1-4, 2008

Clinical Trials

- 2001-7 Chair, Steering Committee, and Principal Investigator, The NovoSeven ICH Trials and FAST Trial, Sponsor: NovoNordisk A/C
- 2000-6 Executive Committee, *Intraventricular Hemorrhage Thrombolysis Trial (Clear-IVH)*. PI: D. Hanley, MD; Sponsor: FDA
- 2002-7 External Safety Monitor, *Phase I Safety Study of Human Serum Albumin for Acute Ischemic Stroke (ALIAS)*. PI: M. Ginsberg, MD; Sponsor: NINDS/NIH
- 2002-12 Steering Committee, *Clazosentan for the Prevention of Cerebral Vasospasm after Aneurysmal Subarachnoid*

Hemorrhage (CONSCIOUS), Actelion Pharmaceuticals,
Allschwil, Switzerland

- 2005-10 External Safety Monitor, *Phase I Study of Intravenous Thrombolysis plus Hypothermia for Acute Treatment of Ischemic Stroke (ICTuS)*, PI: P. Lyden, MD; Sponsor: NIH-SPOTRIAS
- 2007-9 Steering Committee, STAT Registry (Studying the Treatment of Acute Hypertension), Center for Outcomes Research, University of Massachusetts
- 2009-10 Steering Committee, *Cool-Arrest Trial*. Sponsor: Zoll Medical Corporation, Inc., Chelmsford, MA
- 2013- Steering Committee, *NEWTON: Nimovent for SAH Trial*. Sponsor: Edge Therapeutics
- 2014- Steering Committee, REACT: Reversal of Vasospasm with Clazosentan. Sponsor: Actelion Pharmaceuticals.

Speakers Bureau

- 2001-3 Brain Trauma Foundation, New York, NY
- 2001-3 AstraZeneca, LP
- 2002-3 Boehringer Ingelheim
- 2003-8 ESP Pharma/PDL Biopharma
- 2003-7 NovoNordisk
- 2007-10 Astellas Pharmaceuticals

INVITED LECTURES AT INTERNATIONAL MEETINGS

22nd Annual Meeting of the Philippine Neurological Association, Baguio City, Philippines, November 16-17, 2000.

Secondary Prevention of Stroke. In: Lunchtime Symposium

New Concepts in the Management of Increased Intracranial Pressure. In: Plenary Session

22nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 20-22, 2002

Status Epilepticus. In: Neurological Crises
 Subarachnoid Hemorrhage. In: Limiting Brain damage
 Management of the Organ Donor. Plenary Lecture
 Intracerebral Hemorrhage. Plenary Lecture.
 Intracranial Hypertension: a Stepwise Protocol. In: Head Trauma.

NovoSeven: Treatment of Critical Bleeding in the Future ICU. NovoNordisk Satellite Symposium to the 22nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 20, 2002

Intracerebral Hemorrhage: Natural History and Rationale of Ultra-Early Hemostatic Therapy

30th Annual Meeting of the Japanese Association of Acute Medicine, Saporro, Japan, October 11, 2002.

Critical Care of Intracerebral Hemorrhage

23rd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 21, 2003

Myasthenic Crisis. In: Neurologic Crises
 Advances in the Management of Cerebral Hemorrhage. In: Neurologic Crises
 Severe Head Injury: ICU Management. In: CNS Injury
 Neurogenic Stunned Myocardium. In: Neurological Catastrophies

Recombinant Activated Coagulation Factor VIIa: Therapeutic Possibilities. Presented at the Network for the Advancement of Transfusion Alternatives 4th Annual Symposium, London, England, April 15, 2003.

Recombinant Factor VIIa: Potential uses in Non-Surgical Settings

21st Meeting of the International Society of Cerebral Blood Flow and Metabolism - Brain '03. Calgary, Canada, July 2, 2003.

Potential Role of rFVIIa in ICH Treatment. In: Controversies in the Management of Intracerebral Hemorrhage

Neurological Emergencies. Presented at the Catholic University of Leuven Medical Center, Leuven, Belgium, September 26, 2003.

Critical Care of Intracerebral Hemorrhage

16th Annual Congress of the European Society of Intensive Care Medicine, Amsterdam, The Netherlands, October 8, 2003.

Subarachnoid Hemorrhage. In: An Evidence Based Approach for Neurocritical Care Patients.

24nd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, April 1-4, 2004.

Acute Bacterial Meningitis. In: Severe Infections
 Intracranial Bleeding. rFVIIa. In: Bleeding Complications
 Seizures. In: Emergencies
 Critical Illness Neuromyopathy. In: Neurologic Crises
 Blood Pressure Management. In: Cerebral Injury.

International Symposium and Videoconference on Myasthenia Gravis. Hosted by the Myasthenia Gravis Foundation of Argentina, Buenos Aires, Argentina, May 20, 2004.
 Myasthenic Crisis

39th Annual Scientific Meeting of the Canadian Congress of Neurological Sciences, Calgary, AB, June 10, 2004.
 The Potential Role of rFVIIa in ICH Treatment. In: Controversies in the Management of Intracerebral Hemorrhage.

The Medical Management of Intracerebral Hemorrhage: Role of Noninvasive Therapy. Satellite Symposium, World Stroke Congress, Vancouver, Canada, June 24, 2004.
 Medical Management of Spontaneous Intracerebral Hemorrhage

World Stroke Congress, Vancouver, Canada, June 24-26, 2004.
 ICH: Stabilizing the Initial Bleed. In: Intracerebral Hemorrhage.
 Recombinant Factor VIIa for Acute Intracerebral Hemorrhage. In: Late Breaking News and Clinical Trials.

The 3rd Annual Joint Meeting of the European and Romanian Societies of Anesthesiology and Pain Therapy and the Romanian Society of Anesthesia and Intensive Care, Bucharest, Romania, September 16th, 2004.
 Recombinant Factor VIIa for Acute Intracerebral Hemorrhage

25th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 22-25, 2005.
 Therapeutic Hypothermia. Tutorial.
 Continuous EEG Monitoring. In: Neuromonitoring.
 Early Hemostatic Therapy in Intracerebral Hemorrhage. In: Cerebrovascular Accidents.
 Optimizing Blood Pressure in Neurological Emergencies. In: Cerebral Blood Flow.

8th Novo Nordisk Symposium on Haemostasis Management. Copenhagen, Denmark, May 13, 2005.
 Effective Hemostatic Therapy for Intracerebral Hemorrhage

Third National Workshop on Critical Care Neurology, CARE Foundation and CARE Hospital, Hyderabad, India, March 25-27, 2005.
 Ultra-Emergency Treatment of Hemorrhagic Stroke. Keynote Lecture.
 Management of Brain Edema and ICP in Stroke Patients
 Hypothermia for Cardiac Arrest: Pro.
 ICP Monitoring

Subarachnoid Hemorrhage

Managing Uncontrolled Hemorrhage. Satellite Symposium of the Canadian Anesthesiologists' Society 61st Annual Meeting, Vancouver, CA, June 18, 2005.

Recombinant Factor VIIa for Acute Intracerebral Hemorrhage

3rd International Symposium on Intensive Care and Emergency Medicine for Latin America, Sao Paulo, Brazil, June 22, 2005.

Novel Therapies for Intracerebral Hemorrhage

Poor Grade Aneurysmal Subarachnoid Hemorrhage.

Recombinant Factor VIIa: Effective Hemostatic Therapy for Intracerebral Hemorrhage.

In: Recombinant Factor VIIa in Intensive Care.

Tiantan International Stroke Conference, Beijing, China, July 23-25th, 2005.

Advances in the Medical Management of Intracerebral Hemorrhage. In: Opening Lecture Session.

Recombinant Factor VIIa in ICH: Current Results and Future Perspective

Shanghai Neurological Society, Shanghai, China, July 26, 2005.

Medical Management of Intracerebral Hemorrhage.

18th Annual Congress of the European Society of Intensive Care Medicine, Amsterdam, Netherlands, September 25-28, 2005.

Subarachnoid Hemorrhage

Hypothermia: Future Perspectives

Sodium Management

Japanese Novo Seven ICH Trialists Investigators Meeting, Yokohama, Japan, October 7, 2005.

Hemostatic Therapy for ICH

XVIIIth World Congress of Neurology, Sydney, Australia, November 5-8, 2005

Multimodality Monitoring. In: Trauma Postgraduate Course

Management of Intracerebral Hemorrhage. In: Stroke Main Theme.

Medical Management of Intracerebral Hemorrhage. In: Intracerebral Hemorrhage –

Further Knowledge and Future Treatment

Treatment of Hypoxic-Ischemic Brain Injury. In: Neurocritical Care.

2nd Dubai NovoSeven Grand Symposium. Dubai, United Arab Emirates, January 19, 2006.

ICH Hemostasis

Emergency and Critical Care Medicine: The Cutting Edge. Fajardo, Puerto Rico, February 9, 2006.

CVA: New Treatments

Status Epilepticus: New Drugs

International Neurotrauma Symposium, Rotterdam, The Netherlands, May 24th, 2006.

Hemostatic Therapy for Acute Intracerebral Hemorrhage

3rd Annual Meeting of the Turkish Stroke Society, Antalya, Turkey, June 10, 2006

Medical Management of Intracerebral Hemorrhage

Critical Care Management of Acute Stroke

XIVth Annual Meeting of the Indian Academy of Neurology, Bangalore, India, October 6, 2006.

Management of Intracerebral Hemorrhage.

New Approaches to Managing and Monitoring Excessive Bleeding. Taipei, Taiwan, October 7, 2006.

Intracerebral Hemorrhage: New Treatment Options

3rd Bangkok Symposium on Neurosonology and Stroke and the 5th Scientific Meeting of the Asian Chapter of Neurosonology Research Group of the World Federation of Neurology, Bangkok, Thailand, October 10, 2006.

Thrombolysis and Beyond

Medical and Surgical Intervention in Hemorrhagic Stroke

Therapeutic Advances in Intracerebral Hemorrhage Management. Korean Stroke Society. Seoul, Korea, October 11, 2006.

The Role of rFVIIa in Intracerebral Hemorrhage

Joint World Congress on Stroke, Capetown, South Africa, October 27, 2006.

Recombinant Activated factor VII for Acute Intracerebral Hemorrhage: Impact of Timing of Treatment

27th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 28-30, 2007.

Updated Traumatic Brain Injury Guidelines. In: Severe Brain Injury

Hypertonic Saline Solutions: Con. In: Pro-Con Debates.

How to Induce Hypothermia. In: Benefit and Harm of Hypothermia.

The Heart. In: Brain and Organ Interactions

Myasthenic Crisis. In: Neurologic Crises and Management.

Continuous EEG in the ICU. In: Neurologic Crises and Management

Stroke. In: Early Resuscitation.

Place of Hemostatic Therapy in Intracerebral Hemorrhage. In: Hemorrhagic Stroke.

16th European Stroke Conference, Glasgow, Scotland, May 15, 2007

Randomized, placebo-controlled, double blind phase III trial of rFVIIa efficacy in acute intracerebral hemorrhage: the FAST trial.

1st International Symposium: Preserving the Brain in Neurological Emergencies, Rome, Italy, June 13-15, 2007

Fever Control in Neurological Injury

SAH and ICH: Therapeutic Options

SAH and ICH: The Role of Hypothermia
Hypothermia for Ischemic Stroke

17th Annual Meeting of the European Society of Neurology, Rhodes, Greece, June 16-19, 2007
Intracerebral Hemorrhage. In: Neurological Intensive Care Tutorial Session

4th International Symposium on Intensive Care and Emergency Medicine for Latin America, Sao Paulo, Brazil, June 20-22, 2007.

Critical Care of Subarachnoid Hemorrhage
Brain Tissue Oxygen and Microdialysis: It's Not Just ICP Anymore
Severe Traumatic Brain Injury
Therapeutic Hypothermia in the ICU: Problems and Opportunities

Neurocritical Care. The Royal Society of Medicine in Association with The Neurocritical Care Special Interest Group of The Association of British Neurologists, London, UK, October 15, 2007

Management of Acute Cerebral Haemorrhage

Stroke Society of Australasia Annual Scientific Meeting 2007, Perth, Australia, October 17-19, 2007

Intracranial Hemorrhage. Keynote Address.
Neurocritical Care. Keynote Address.

Critical Care Canada Forum 2007, Toronto, Canada, November 2007

Management of Coma Using Microdialysis and Tissue PO₂. In: Caring for the Brain-Injured Patient
Temperature Control in Brain Injury: How and Why. In: Manipulating Temperature: Protecting the Brain?
Contemporary CNS Monitoring. In: Resident's Day – 2007.

Therapeutic Temperature Management Congress, Cancun, Mexico, December 5-7, 2007

Hypothermia Treatment Requires Paralysis: Pro
Hyperthermia and Fever Control
The Downside: Side Effects of Hypothermia
Space-Occupying MCA Infarction: Therapeutic Options

EuroNeuro 2008, Maastricht, The Netherlands, January 18, 2008

Fever in the Neuro-ICU: A Deleterious and Avoidable Secondary Insult?

Emergency and Critical Care Medicine: The Cutting Edge. Fajardo, Puerto Rico, February 12, 2008.

Optimizing BP in Neuro-Emergencies
Status Epilepticus: New Drugs
Hypothermia for Cardiac Arrest

28th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 18-20, 2008.

Cerebral Resuscitation. In: CPR
Sodium Control. In: Cerebral Protection
Other Options. In: Cerebral Protection
Medical Therapy. In: Intracerebral Hemorrhage
Multimodality Monitoring. In: Neuromonitoring
Control of BP in Acute Stroke. In: Emergencies

21st Annual Congress of the European Society of Intensive Care Medicine, Lisbon, Portugal, September 21-24, 2008

Vasospasm: Pathogenesis and Diagnosis. In: Subarachnoid Hemorrhage
Horizon Scanning: New Interventions in SAH. In: Subarachnoid Hemorrhage
Autonomic Dysfunction in Critical Illness. In: Neurological Dysfunction
Coma, Vegetative State, and Minimally Conscious State. In: Neurological Dysfunction
Glycemia. In: Monitoring-Driven Treatment Could Improve Outcome in Severe Brain Damage?
Conscious-2: Clazostentan to Overcome Neurological Ischemia and Infarction after Subarachnoid hemorrhage. In: Advances in Neurocritical Care

Therapeutic Temperature Management Congress, Barcelona, Spain, October 1-4, 2008

Fever Control in Neurological Injury
Stroke and Subarachnoid hemorrhage: Therapeutic Options
Hypothermia for Stroke: The ICTuS-L Trial

The 3rd Pan-Arab Critical Care Medicine Congress, in conjunction with the 4th Kuwait Critical Care Conference, November 4-8, 2008

Intracerebral Hemorrhage
Critical Care Management of Stroke
Traumatic Brain injury
Management of ICP
Multimodality Monitoring
Intensivists Manage Head Injury Better than Neurosurgeons: Pro

Critical Care Canada Forum 2008, Toronto, Canada, November 11, 2008

Neuromonitoring: An Overview
Preventing Secondary Injury in SAH

The Lancet Asia Medical Forum 2008: Stroke in Asia, Beijing, China, November 14-15, 2008

Intracerebral Hemorrhage

Philippine Neurological Association 30th Annual Convention, Manila, Philippines, November 19-22, 2008

Myasthenic Crisis
Inside the Black Box: Multimodality Monitoring in Neurocritical Care

4th International Critical Care Symposium: Expanded Horizons, Catholic University of Santiago, Santiago, Chile, July 2-4, 2009

Acute Stroke: Thrombolysis and Beyond
Critical Care of SAH
The Black Box: Illuminating the Comatose Human Brain
Update on Hypothermia after TBI

Intracerebral Hemorrhage Update 2009, Rigshospitalet Neurocentre, Copenhagen, Denmark, September 1, 2009

ICH: Where Have We Been and Where Should We Go?

Third International Hypothermia Symposium, Lund, Sweden, September 2-5, 2009

Measurement and Management of Shivering

19th World Congress of Neurology, Bangkok, Thailand, October 25-28, 2009

Hemorrhage. In: Spontaneous ICH
The Treatment of ICH. In: What's New in Stroke?
Hypothermia and Post-Resuscitation Care after Cardiac Arrest: In: Neurology of Extreme Conditions

ANIM 2010: Arbeitstagung der Deutsche Gesellschaft für Neurointensiv- und Notfallmedizin (German Neurocritical Care Society), Bad Homburg, Germany, January 20-23, 2010

Intracerebral Hemorrhage: Pathogenesis and Clinical Spectrum. In: Presidential Symposium

L'Urgenza in Neurochirurgia (Neurosurgical Emergencies), Università Degli Studi di Verona, Verona, Italy, February 8, 2010

Emergency Management of Neurosurgical Patients. Magistral Lecture.

47TH Annual Congress of the Canadian Neurological Sciences Federation, Quebec City, Canada, June 9-11, 2010

Update on Management of Intracerebral and Subarachnoid Hemorrhage. In: Neurovascular Surgery Course.
Inside the Black Box: Illuminating the Comatose Human Brain. Plenary Lecture.

13th Japanese Association of Brain Hypothermia Meeting, Osaka, Japan, July 2-3, 2010

Fever Control and Shivering
Hypothermia for Acute Ischemic Stroke

Emirates Critical Care Conference: Dubai 2011, Dubai, United Arab Emirates, April 21-23, 2011

Inside The Black Box: Illuminating the Comatose Human Brain
Subarachnoid Hemorrhage: New Insights
Electrical Brain Rhythms of Death
Neurological Emergencies: Meeting the Challenge

First International Russian Neurocritical Care Symposium, Burdenko Neurosurgical Institute, Moscow, Russia, May 25-26, 2012

Multimodality Monitoring: An Overview

Management of Intracranial Pressure: A Stepwise Approach

ANIM 2012: Joint meeting of DGNI Deutsche Gesellschaft für Neurointensiv- und Notfallmedizin (German Neurocritical Care Society) and Neurocritical Care Society (NCS), Mannheim, Germany, January 23-25, 2013

Where's My Tricorder? The Future of Neurocritical Care

2013 10th Annual Canadian Critical Care Conference, Whistler, Canada

Electrical Brain Rhythms of Death

Inside The Black Box: Illuminating the Comatose Human Brain

Subarachnoid hemorrhage: New Strategies

34th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 18-21, 2014.

Stop the Bleeding. In: Intracerebral Hemorrhage

Prevention. In: Delirium

Inside the Black Box: Bain Multimodality Monitoring. In: Neuromonitoring.

Refractory Status Epilepticus. In: Neurological Challenges

ICP Management (Tutorial).

Endovascular Therapy for Stroke. In: Neurological Emergencies.

11th Critical Care Symposium, Manchester, United Kingdom, May 2014

The Special Problem of Hyponatremia in Stroke

35th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 17-20, 2015.

Subarachnoid Hemorrhage (Tutorial)

TPA for Stroke: The Helsinki Protocol. In: Cerebrovascular Accidents

How Important is it for the Brain? In: Glucose Control

Does Takutsubo Even Exist? In: Interorgan Crosstalk

Using Vasopressors Wisely. In: Subarachnoid Hemorrhage

Non-Convulsive Status Epilepticus. In: Neurological Challenges

We Need Multimodality Monitoring. In: Neuromonitoring

28th Annual Congress of the European Society of Intensive Care Medicine, Berlin, Germany, October 3-7, 2015

CT and MRI: What the Intensivist needs to Know. In: Neurocritical Care 101

Neuroimaging. In: Recovery of Consciousness: basics, Monitoring, Interventions

Is There a Role for Pharmacological Therapies? In: Cerebral Ischemia after SAH

Brain Injury & Network Dysfunction. In: The Future of Neurointensive care [discussion]

Treatment of Refractory Status Epilepticus. In: Controversies in the Neuro-ICU

36th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 15-18, 2016.

Subarachnoid Hemorrhage (Tutorial)
 Super-Refractory Status Epilepticus. In: Neurological Challenges
 ICP: A Stepwise Protocol. In: Intracranial Hypertension
 Heart/Brain Interactions: In: Subarachnoid Hemorrhage
 2016 Guidelines: In: Traumatic Brain Injury

29th Annual Congress of the European Society of Intensive Care Medicine, Milan, Italy, October 3-5, 2016

Fever Control in the ICU: The Hidden Evidence. In: TTM As the Standard of Care –
 Aligning Practice, Evidence and Guidelines
 Gut Feeling – What Function Does the Brain have? In: Organ Cross Talk

Critical Care Canada Forum 2016, Toronto, CA, November 5th, 2016

Management of ICP: A Stepwise Approach
 Rapid Bedside Neurological Assessment

First International Biomedical Congress of Critical Care, Burnazian State Research Medical Center, Federal Medical & Biological Agency of Russia, Moscow, Russia

Status Epilepticus
 Invasive and Noninvasive ICP Monitoring
 Acute Stroke: The Mount Sinai RAPID-ICP Protocol
 Continuous Video-EEG Monitoring
 Expectant Management of the Potentially Brain Dead Organ Donor

INVITED LECTURES AT NATIONAL MEETINGS

45th Annual Meeting of the American Academy of Neurology, New York, NY, May 1993

Cardiovascular Hemodynamic Monitoring. In: Critical Care Neurology Skills Workshop,

47th Annual Meeting of the American Academy of Neurology, Seattle, WA, May 1995

Hemodynamic Augmentation in the Treatment of Vasospasm. In: Medical Management
 of Critically Ill Neurologic Patients,

National Myasthenia Gravis Medical Colloquium, Lenox Hill Hospital, New York, NY, April 10, 1996.

Intensive Care of the Myasthenic Patient

Acute and Critical Care in Neuromuscular Diseases, Columbia-Presbyterian Medical Center, New York, NY, June 27, 1997.

Myasthenia Gravis: Crisis Management.

Brain Attack: Update on Medical and Surgical Management. New York Marriott Marquis, Columbia University College of Physicians and Surgeons, New York, NY, June 6, 1998
Medical and Surgical Management of Intracerebral Hemorrhage

24th American Heart Association International Conference on Stroke and Cerebral Circulation, Nashville TN, February, 1999

Clinical Applicability of Hypothermia for Acute Ischemic Stroke. In: Evolving Nonpharmacologic Approaches to Ischemic Stroke: Hypothermia and Hemicraniectomy.

Neurology for the Primary Care Provider: Diagnosis & Treatment Issues. Essex House, Columbia University College of Physicians and Surgeons, New York, NY, April 10, 1999.
Neurological Emergencies

Myasthenia Gravis: Advances in Diagnosis, Pathogenesis and Treatment. Long Island Jewish Medical Center, NY, May 11, 1999
Neuro-Intensive Care of the Myasthenia Gravis Patient

Neurologic Emergencies and Neurocritical Care. New York Marriot Marquis, Columbia University College of Physicians and Surgeons, New York, NY, October 16, 1999.
Intracranial Pressure Management: A Stepwise Protocol.

52nd Annual Meeting of the American Academy of Neurology, San Diego, CA, April, 2000
Treatment Options for Refractory Status Epilepticus. In: Controversies in Critical Care
Hypothermia for Acute Traumatic Brain Injury. In: Controversies in Critical Care.
The Meaning and Measurement of ICP. In: Neurological Intensive Care

New and Emerging Approaches for the Millenium. A Teaching Seminar of the National Stroke Association. New York Academy of Medicine, New York, NY, May 16, 2000.
Subarachnoid Hemorrhage, Vasospasm, and Blood Pressure Interventions. In: Stroke Prevention and Management:

Diagnostic & Treatment Issues in Myasthenia Gravis. NYU Medical Center, May 20, 2000.
The Treatment of Crisis and Impending Crisis

Brain Attack: Update on Medical & Surgical Management. New York Marriott Marquis, Columbia University College of Physicians and Surgeons, New York, NY, June 3, 2000
Intracerebral Hemorrhage.

30th International Educational and Scientific Symposium of the Society of Critical Care Medicine, San Francisco, CA, February 11, 2001.

Endovascular Treatment of Vasospasm. In: Critical Care of Subarachnoid Hemorrhage

26th International Stroke Conference of the American Stroke Association. Fort Lauderdale, FL, February 16, 2001.

Cognitive Dysfunction and Quality of Life after SAH: The Columbia University SAH Outcomes Project. In: Aneurysmal Subarachnoid Hemorrhage in the Community: Risk and Outcome.

53rd Annual Meeting of the American Academy of Neurology, Philadelphia, PA, May, 2001.
Hemicraniectomy for Massive Intracerebral Hemorrhage. In: Controversies in Critical Care.
Terminal Extubation for Patients With Severe, Irreversible Brain Damage. In: Controversies in Critical Care.

Neurologic Emergencies and Neurocritical Care. New York Academy of Medicine, Columbia University College of Physicians and Surgeons, New York, NY, May 19, 2001.
Intracranial Pressure Management: A Stepwise Protocol.

Neurocritical Care 2001: Returning from the Dark Side of the Brain. Cleveland Clinic Foundation, Cleveland, OH, September 29, 2001.
Hypothermia for Malignant MCA Infarction.

Neurological Critical Care: Evidence for Effective Care. A Consensus Conference. The Queen's Medical Center, Honolulu, Hawaii, November, 2001.
Intracranial Hypertension: Management with Hypothermia.

Clinical Neuroscience: Update for the New Millenium. A National Seminar. Grand Hyatt New York, Columbia University College of Physicians and Surgeons, New York, NY, December 1, 2001
NICU: Basics of a New Field (break-out session moderator)

New Trends in Therapeutic Temperature Management. An Educational Symposium. San Antonio, TX, February 8, 2002.
The Sequela of Hyperthermia

23rd Princeton Conference on Cerebrovascular Disease, Coronado, CA, March 23rd, 2002.
Limiting Hemorrhage Enlargement.

54th Annual Meeting of the American Academy of Neurology, Denver, CO, April 15, 2002.
Hypertonic Saline as the Standard Intravenous Fluid for Acute Brain Injury. In: Controversies in Critical Care.
Treatment of Fever in Neuro-ICU Patients: Rationale and New Approaches. In: Controversies in Critical Care.
Severe ICP & Refractory Status Epilepticus. In: Case Studies in Critical Care.

32nd International Educational and Scientific Symposium of the Society of Critical Care Medicine Critical Care Congress, San Antonio, TX, January 2003.
Factor 7A for Intracerebral Hemorrhage. In: Stroke and Trauma.
Hyperthermia and Fever Control. In: New Approaches to Temperature Management.

The Inagural Meeting of the Neurocritical Care Society, Phoenix AZ, February 15th and 16th, 2003

The Neurocritical Care Society: Organizational Structure and Mission.

Neurology 2003: Update for the Primary Care Provider. New York Marriott Marquis, Columbia University College of Physicians and Surgeons, New York, NY, March 8, 2003
Neurological Emergencies

55th Annual Meeting of the American Academy of Neurology, Honolulu, HI, April 4, 2003

Timing of Tracheostomy in Neuromuscular Respiratory Failure. In: Controversies in Critical Care.

Is The Six Hour Time Window Sacred in Intra-Arterial Thrombolysis? In: Controversies in Critical Care.

Indications and Mangement of Hypothermia for Neuroprotection. In: Critical Care and Emergency Neurology

25th Annual Meeting of the Society of Cardiovascular Anesthesiologists, Miami, FL, April, 2003

Critical Illness Neuromyopathy: A Disastrous Outcome. In: the CNS as a Target Organ.

American Association of Neurological Surgeons Annual Seeting, San Diego, CA, April, 2003.

Intracranial Hemorrhage: Medical Approaches. In: New Advances in the Mangement of Neurosurgical Bleeding.

Neurocritical Care 2003: Here Comes the Sun: A Global Summit on Critical Care for Cerebrovascular Disease. The Cleveland Clinical InterContinental Hotel and Conference Center, Cleveland, OH, September, 2003.

Cerebral Vasospasm: Which H is the Most Importanrt H?

53rd Annual Meeting of the Congress of Neurological Surgeons, Denver, CO, October, 2003.

Alpha-2 Agonists: Neuro-ICU Considerations. In: Applied Use of Alpha-2 Adrenergic Agonists in Neurological Procedures and in the Neuro-ICU Patient.

Brain Attack and Cerebrovascular Disease Update 2003. NewYork- Presbyterian Hospital. The Grand Hyatt, New York, NY, November 21, 2003.

Intracerebral Hemorrhage.

American Academy of Neurology 2004 Western Winter Conference, Lake Tahoe, CA, January, 2004.

Status Epilepticus. In: Update in Epilepsy.

33rd Critical Care Congress, Society of Critical Care Medicine, Orlando, FL, February 23, 2004.

Management of Hypertension in Neurological Emergencies. In: Hypertensive Crisis: Strategies to Minimize End-Organ Damage

EEG Monitoring for the Intensivist. In: Seizures and Status Epilepticus.

American College of Cardiology Annual Meeting, New Orleans, LA, March 7, 2004,
Cardiac Arrest: Hypothermic Techniques. In: Improving Outcomes after Out-of-Hospital Arrest.

American Association of Neuroscience Nurses 36th Annual Meeting, San Antonio, TX, April 20, 2004.

Advances in the Management of Intracranial Hemorrhage. In: Treatment Options for Traumatic Bleeding Episodes in Neurosurgery.

56th Annual Meeting of the American Academy of Neurology, San Francisco, CA, April 26, 2004.
Therapy of Hypoxic Ischemic Brain Injury. In: Brain Injury after Cardiac Arrest.
Innovative Medical Treatments for Brain Hemorrhage. In: Controversies in Critical Care of Brain Hemorrhage

Practical Critical Care. The University of Virginia Department of Neurology, Charlottesville, VA, September 24, 2004.

Neurogenic Cardiopulmonary Complications of Acute Brain Injury

Neurocritical Care 2004: Imagine -- A Global Summit on Critical Care for Cerebrovascular Disease. Cleveland Clinic Foundation, Cleveland, OH, November 5, 2004.

Management of Subarachnoid Hemorrhage

Scientific Sessions of the American Heart Association, New Orleans, LA, November 9, 2004.

Why Won't this Patient Wake Up? A Guide for the Cardiologist. In: Getting a Head: Neurological Issues in the Practice of Cardiology.

48th Annual Meeting and Exposition of the American Society of Hematology, San Diego, CA, December 3, 2004.

Intracerebral Hemorrhage: New Treatment Options. In: New Approaches to Managing and Monitoring Excessive Bleeding.

34th Critical Care Congress, Society of Critical Care Medicine, Phoenix, AZ, January 2005
Therapeutic Hypothermia. In; Post-Graduate Course: Nuts & Bolts of Neurocritical Care.

Managing Water Balance in Neuro Patients. In: Vasopressin Receptor Antagonism: Turning the Tide Against Salt and Water Imbalance

Cooling for Stroke, Trauma, and ICP. In: Therapeutic Hypothermia: Effects of Cooling on Cardiac and Neurological Outcomes.

30TH American Stroke Association International Stroke Conference, New Orleans, LA, February 2, 2005.

A New Treatment Option for Intracerebral Hemorrhage In: Early Therapy for Intracerebral Hemorrhage: Options for Improving Patient Outcomes.

Third Annual Meeting of the Neurocritical Care Society, Scottsdale, AZ, February 26, 2005.

Dawn of the Dead: Rescue, Resuscitation and Salvage in the Neuro-ICU. Dinner Lecture.

57th Annual Meeting of the American Academy of Neurology, Miami, FL, April 11, 2005.
Therapy of Hypoxic Ischemic Brain Injury. In: Brain Injury after Cardiac Arrest.
Overcoming Barriers to Clinical Research. In: Taking Part in Clinical Research:
NINDS Clinical Research Collaboration.
Multimodality Monitoring in the Neuro-ICU. In: Critical Care Epilepsy/EEG.

Brain Edema XIII Intracerebral Hemorrhage Conference, Ann Arbor, MI, June 4, 2005
Hemostatic Therapy for Intracerebral Hemorrhage. Keynote Speech.

Annual Meeting of the Society of Neurosurgical Anesthesia and Critical Care, Atlanta GA,
October 20, 2005
Recombinant Activated Factor VII for Acute Intracerebral Hemorrhage. Plenary Lecture.

35th Critical Care Congress, Society of Critical Care Medicine, San Francisco, CA, January, 2006
Therapeutic Hypothermia. In: Postgraduate Neurocritical Care Course.
Blood Pressure. In: Medical Management of Subarachnoid Hemorrhage.
Control of Blood Pressure in SAH and ICH In: Optimal Blood Pressure Management in
Hypertensive Emergencies.
Fever Control. In: Therapeutic Hypothermia.

UCLA Neuro-ICU Neuromonitoring Course. UCLA Department of Neurosurgery, Los Angeles, CA,
February, 2006
Technical Aspects of Continuous EEG Monitoring
Intracranial Pressure Monitoring.

31st American Stroke Association International Stroke Conference, Kissimmee, FL, February 16,
2006.
Subarachnoid Hemorrhage: Approaches to Optimize Prevention and Treatment of
Vasospasm. In: Debating Hypertensive Management Approaches in Acute Ischemic
and Hemorrhagic Stroke.
Debate: How, When, and How Much Should Blood Pressure be Lowered in the Setting of
Intracerebral Hemorrhage? In: Debating Hypertensive Management Approaches in
Acute Ischemic and Hemorrhagic Stroke.

3rd New York Symposium on Neurological Emergencies and Neurocritical Care. The New York
Academy of Medicine, New York, NY, May 4th, 2006
Ultra-Early Hemostatic Therapy. In: Intracerebral Hemorrhage.
Temperature. In: Physiological Homeostasis.
Fever Control. In: Hypothermia Workshop.
ICU Cooling Protocols. In: Hypothermia Workshop.
Keeping it Real: Quality Assurance and Benchmarking.

25th Princeton Conference on Cerebrovascular Disease, Portland. OR, May 20th, 2006

Factor VII in Human Intracerebral Hemorrhage.

Second Annual Vascular Neurology Board Review Course, UMDNJ, Newark, NY, June 2, 2006.
Intracerebral Hemorrhage.
Subarachnoid Hemorrhage

4th Annual Meeting of the Neurocritical Care Society, Baltimore, MD, November 2, 2006.
Design and Implementation of Research Protocols. In: Building the Future of Neurocritical Care.
Saturday Night Fever: Rational Work-Up and Management.

Brain Attack and Cerebrovascular Disease Update 2006, New York Presbyterian Hospital, New York, NY, November 17, 2006.
Intracerebral Hemorrhage.

ICU of the Future at UCLA, Los Angeles, CA, January 26, 2007.
What the Clinician Wants From ICU Information Platforms.
Interesting Cases in Multimodality Monitoring

2007 International Stroke Conference, San Francisco, CA, February 9, 2007
Factor VIIa: Ready for Use? In: Intracerebral Hemorrhage.
Advances in the Management of ICH. In: 2006 Stroke Management Update. Satellite Symposium
Blood Pressure Management in Intracerebral Hemorrhage. In: Issues and Controversies in Acute Stroke Management: The Experts Debate Continues.
Prevention and Treatment of Vasospasm in Subarachnoid Hemorrhage. In: Issues and Controversies in Acute Stroke Management: The Experts Debate Continues.

Therapeutic Temperature Management: A Rocky Mountain Summit. Breckenridge, CO, March 7, 2007.
Hyperthermia and Fever Control.

59th Annual Meeting of the American Academy of Neurology, Boston, MA, April, 2007.
Current Best Practices for Intracerebral Hemorrhage. In: Neurological Intensive Care.
Intracerebral Hemorrhage: The New Framework. In: Acute Stroke Management.
Intracerebral Hemorrhage. In: Cerebrovascular Diseases.
Randomized, Placebo-controlled, Double Blind Phase III Trial of rVIIa Efficacy in Acute Intracerebral Hemorrhage: the FAST Trial. In: Late Breaking Science.

4th New York Symposium on Neurological Emergencies and Neurocritical Care, May, 2007.
Intracranial Pressure. In: ABC and ICP.
Hemostatic Therapy for ICH: The FAST Trial.
Inside the Black Box: Illuminating the Comatose Brain
Intracerebral Hemorrhage. In: Multimodality Case Studies.
Fever Control. In: Therapeutic Hypothermia Workshop.

5th Annual Neurocritical Care and Stroke Conference: Neurocritical Care 2007: You Might Think.
Cleveland Clinic, October 5, 2007

Medical Management: Factor VIIa: Yes, No, Maybe?

Association of University Professors of Neurology 7th Annual Leadership Course, Washington DC,
October 7, 2007

Neurocritical Care: Superfluous or Essential?

American College of Emergency Physicians, Seattle, WA, October 9, 2007

BP Control and Stroke: Pro – Calcium Blockers. In: Knockout at the Needle: Hot Topics
in Emergency Medicine

American College of Chest Physicians, Chicago, IL, October 17, 2007

BP Control in Neurological Emergencies. In: Hypertensive Crises in the Critical Care
Setting: Current Perspectives and Practice Challenges

5th Annual Meeting of the Neurocritical Care Society, Las Vegas, NV, October 31, 2007

Rational use of Antibiotics in the ICU

*Critical Care Networks: A Partnership Model to Improve Patient Outcomes, The New York Academy
of Medicine, January 15-16, 2008*

Management of Intracranial Pressure

UCLA Neurosurgery ICU of the Future, January 24-25, 2008

Controversies in Intracerebral Hemorrhage
Hypothermia in Neurocritical Care

Monitoring Brain Chemistry During Neurointensive Care: State of the Art, Scandinavia House,
New York, NY, February 29, 2008

Multimodality monitoring: who, when, why?

Microdialysis: the Columbia experience

Society of Neurological Surgeons, 99th Meeting in the 88th Year, Madison, WI, May 18-20, 2008

Financing a neurocritical care program

The Littauer Foundation International Symposium on End of Life Issues from a Jewish Perspective,
Columbia University, New York, May 22, 2008

Brain Death: A Secular Perspective

Society of Academic Emergency Medicine, Washington, DC, May 30, 2008

Beyond the FAST Trial. In: Neuroresuscitation Study Design: Analyzing Success...and
Failure

The Endocrine Society 90th Annual Meeting, San Francisco, CA, June 15, 2008

Evaluation and Management of Hyponatremia in Brain Injured Patients: Differentiating
SIADH from Cerebral Salt Wasting

Brain Trauma Foundation Lunchtime Web Lecture, August 15th, 2008
Hypothermia for Traumatic Brain Injury

Getting Better: 6th Annual Cleveland Neurocritical Care and Stroke Conference, September 12th, 2008

Taking it to the Limit: Management of Poor Grade SAH

Hypothermia: From Threat to Cure. New York Academy of Sciences, New York, NY, September 19, 2008

Hypothermia and Normothermia in Neurocritical Care

6th Annual Meeting of the Neurocritical Care Society, Miami, FL, October 22-25, 2008
Novel and Emerging Cooling Strategies

Chest 2008, Philadelphia, PA, October 29, 2008
Traumatic Brain Injury

New York State Society of Anesthesiologists 62nd Post Graduate Assembly, New York, NY, December 12, 2008

Perioperative Glycemic Control In Neurosurgical Patients: Do We Know What Normal Is?
In: *Neuroanesthesia Controversies: Fact or Fiction?*

38th Critical Care Congress, Society of Critical Care Medicine, Nashville, TN, Feb 1, 2009
Evolving Strategies for Hyponatremia Management in the ICU. In: *Hyponatremia: An Update for Critical Care Management*

2009 International Stroke Conference, San Diego, CA, February 18-20, 2009
Off-Label Use of Factor VII for ICH. In: *Ethical Issues in Stroke Care*
The Stroke/Neurointensivist/Hospitalist. In: *What are the Different career paths in Academic Stroke Medicine?*

Neurological Institute of New York Centennial Symposium, New York, NY September 27, 2009
Advances in Neurocritical Care

All Together Now: 7th Annual Cleveland Neurocritical Care and Stroke Conference, Case Western Reserve University, Cleveland, OH, September 27, 2009
Don't Stop Believin': Any Role for Factor VII Now?

Controversies and Advances in the Treatment of Cardiovascular Disease: The Ninth in the Series, Presented by the West Coast Chapter of the American College of Cardiology, The Beverly Hills Hotel, Los Angeles, CA, October 1-2, 2009 "
New York City Project Hypothermia

American Academy of Neurology Winter Update, Las Vegas, NE, November 6, 2009
Neurocritical Care

39th Critical Care Congress, Society of Critical Care Medicine, Miami, FL, January 9-13, 2010
Hypothermia after Cardiac Arrest
What is the Ideal Sodium after Brain Injury?

UCLA Neurosurgery ICU of the Future, January 24-25, 2008
Hypothermia for Cardiac Arrest
Novel Treatments for Vasospasm
Multimodality Monitoring Critical Pathways

62ND Annual Meeting of the American Academy of Neurology, Toronto, CA, April 12-16, 2010
Interactive Case Studies. In: Neurology Skills Pavilion: Acute Stroke Alert
Management of ICH: What's New, What's True. In: Therapy Program: Stroke
What's New in the Mangement of ICH: In: Neurological Intensive Care

UCLA Brain Attack 2010! Los Angeles, CA, May 22, 2010
Keynote Speech: Saving the Brain in Cardiac Resuscitation: Hypothermia and the Stroke Community

General Electric Health Care Global Global Technology Symposium, Milwaukee, WI, September 22, 2010
Keynote Speech: Multimodality ICU Monitoring: What the User Wants

Neurocritical Care 2010: Walk of Life, Case Western Reserve Univeristy, Cleveland, OH, October 14, 2010
While My Guitar Gently Weeps: When to Push and When to Stop

Specialists on Call Annual Meeting, Orlando, FL, October 2011
Elevated Intracranial Pressure: New Approaches to an Age-Old Problem

9th Annual Meeting of the Neurocritical Care Society, Montreal, Canada, October 2011
Terrorism: In: Neurocritical Care in Extreme Conditions

Neurocritical Care 2011: Across the Universe. Case Western Reserve University, Cleveland, OH, September 2011
Whiter Shade of Pale: Management of Intracerebral Hemorrhage

Neurotrauma and Neurocritical Care of the Future, UCLA, January 19 and 20, 2012
Using Brain Monitors to Guide Therapy
Cardiac Arrest: Therapeutic Hypothermia

64th Annual Meeting of the American Academy of Neurology, New Orleans, LA, April 25, 2012
Acute Stroke Alert Skills Workshop (course director)

10th Society of Neurointerventional Surgery Practicum, New York, NY, April 27, 2012
Post-Procedure: ICU and Afterwards

10th Annual Meeting of the Neurocritical Care Society, Denver, CO, October 7, 2012
Skip the Rat: Basic Science Rarely Helps Our Patients

42nd Critical Care Congress, Society of Critical Care Medicine, San Juan, PR, January 213, 2013
Hypothermia. In: Post Cardiac Arrest Care

American Thoracic Society 2013, Philadelpha, PA, May 21, 2013
Persistent Seizures. In: At the Edge of Evidence. What Should I Do Now?

The Northeastern Cerebrovascular Consortium 8th Annual Summitt, Boston, BA, Oct 18, 2013
Critical Care of Stroke

2014 International Stroke Conference, San Diego, CA, February 13, 2014
Licox Monitoring: In; Neurocritical Care

The Second Annual Neuro-ICU Symposium, March 5-7, 2014, Mischer Neuroscience Institute, UT Health, Houston, TX
Inside the Black Box: Illuminating the Comatose Brain
ICP: How to Do it Right
MMM: Pro (Crossfire debate)

66th Annual Meeting of the American Academy of Neurology, Philadelphia, PA, April 27, 2014
All cEEG Seizures Should be Aggressively Treated. In: Hot Topics Crossfire Debate:
When and How to Withdraw Life Support. In: Neurological Intensive Care

Don't Look Back: 11th Annual Cleveland Neurocritical Care and Stroke Conference, Case Western Reserve University, Cleveland, OH, May 30, 2014
Update on Subarachnoid Hemorrhage

3rd Neurocritical Care Society Research Symposium, Baylor College of Medicine, Houston, TX, August 16, 2014
Outcome Calculators

12th Annual Meeting of the Neurocritical Care Society, September 10-13, Seattle, WA
Multimodality Monitoring: Role of CBF Measurement

44th Critical Care Congress, Society of Critical Care Medicine, Phoenix, AZ, January 19, 2013
Hyponatremia: Pathogenesis and Initial Diagnosis. In: Diagnosis and Application of Current and Emerging Therapeutic Interventions for Hyponatremia in the Critical Care Patient

Walking in Memphis: 2015 Annual Multi-Disciplinary Memphis Stroke Conference, February 14, 2015
Neurocritical Care: Past, Present and Future

American Heart Association / American Stroke Association 2016 International Stroke Conference, Los Angeles, CA, February 17-20, 2016

Critical Care: In: The Next Big Thing in Stroke (at Lightning Speed).

Cardiovascular Complications of Subarachnoid Hemorrhage. In: Neurocritical Care of SAH

The 12th NY Symposium on Neurological Emergencies and Neurocritical Care, New York, NY, June 8-11, 2016

Fast + Furious: Breaking the Speed Barrier for Stroke

Critical Care of the Reperfused Brain

Prognostication After Cardiac Arrest

Inside the Black Box: Understanding the Comatosr Human Brain

Emergency Reversal of Anticoagulation

Refractory ICP Crisis: When the Going Gets Tough

14th Annual Meeting of the Neurocritical Care Society, Washington DC, September 14-16, 2016

Fever Management and Hyperthermia

Diagnosis and management of Super Refractory Status Epilepticus

American Heart Association Resuscitation Science Symposium 2016, New Orleans, LA, November 14, 2016

Titration Post-Arrest care to EEG

9th Annual Meeting of the Society of Vascular and Interventional Neurology. Brooklyn, NY, November 16-19, 2016

Critical Care of the Reperfused Brain

Moderator, Panel Discussion on Stroke Access Care for One and All: National and International Objectives

VISITING PROFESSOR

- 1998 Intracerebral Hemorrhage. Neurology Grand Rounds, *Long Island Jewish Medical Center, New Hyde Park, NY*
- 1999 Update in Neurocritical Care. Neurology Grand Rounds, *Beth Israel Medical Center, Singer (North) Division, New York, NY*
- 2002 New Approaches to the Treatment of Intracerebral Hemorrhage. Neurology Grand Rounds, *Weil-Cornell School of Medicine, New York-Presbyterian Hospital, New York, NY*
- 2003 Update in Neurological Intensive Care. Department of Neurology Grand Rounds, *Hartford Hospital, Hartford CT*

- 2003 Control of Blood Pressure in Neurological Emergencies. Department of Neurology Grand Rounds, *Drexel University School of Medicine, Philadelphia, PA*
- 2003 Control of Blood Pressure in Neurological Emergencies. Surgical Anesthesia Critical Care Grand Rounds, *Thomas Jefferson Medical Center, Philadelphia, PA.*
- 2003 Critical Care of Intracerebral Hemorrhage. Department of Neurology Grand Rounds, *Massachusetts General Hospital, Boston, MA.*
- 2004 Critical Care of Intracerebral Hemorrhage. Neurology Grand Rounds, *USC Medical Center, Los Angeles, CA*
- 2004 Assessment of Outcomes after Subarachnoid Hemorrhage. Neurocritical Care Research Seminar, *UCLA Medical Center, Los Angeles, CA*
- 2004 Hypothermia for Acute Ischemic Stroke. Neurocritical Care Grand Rounds, *Johns Hopkins Medical Center, Baltimore, MD*
- 2004 Critical Care of Increased Intracranial Pressure. Neurology Grand Rounds, *University of Rochester School of Medicine, Rochester, NY*
- 2004 Vasoactive Therapy in Neuro-ICU Patients. Neurology/Neurosurgery Grand Rounds, *Barrow Neurological Institute, Phoenix, AZ*
- 2004 Emergency and Critical Care Management of Intracerebral Hemorrhage. Neurology Grand Rounds, *Northwestern University Memorial Hospital, Chicago, IL*
- 2004 Emergency and Critical Care Management of Intracerebral Hemorrhage. Neurosurgery Grand Rounds, *Barnes/Jewish Medical Center, Washington University, St Louis, MO.*
- 2005 Update in Neurocritical Care. Department of Neurology Grand Rounds, *Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY*
- 2005 Update in Neurocritical Care. Neurology/Neurosurgery Grand Rounds, *Albany Medical College, Albany, NY*
- 2005 Emergency and Critical Care Management of Intracerebral Hemorrhage. Department of Neurology Grand Rounds, *SUNY Stony Brook, Stony Brook, NY*
- 2005 Critical Care Management of Subarachnoid Hemorrhage. Neurology/Neurosurgery Grand Rounds, *Brown University School of Medicine, Providence, RI*
- 2005 Update in Neurocritical Care. Department of Neurology/Neurosurgery Grand Rounds, *Yale University School of Medicine, New Haven, CT*

- 2005 Outcomes Research in Subarachnoid Hemorrhage. Department of Neurology Grand Rounds, *University of Pennsylvania Medical Center, Philadelphia, PA*.
- 2005 Emergency and Critical Care Management of Intracerebral Hemorrhage. Neurology/Neurosurgery Grand Rounds, *Emory University Medical Center, Atlanta, GA*.
- 2005 Management of ICP and Brain Edema in Patients with Stroke. Neurology/Neurosurgery Grand Rounds, *University of Cincinnati Medical Center, Cincinnati, OH*
- 2006 Therapeutic Hypothermia. Neurology/Neurosurgery Grand Rounds, *Stanford University School of Medicine, Palo Alto, CA*
- 2006 Update in Neurocritical Care. Neurology Grand Rounds, *University of Vermont Medical Center, Burlington, VT*
- 2006 Emergency and Critical Care Management of Intracerebral Hemorrhage. Neurosurgery Grand Rounds, *Detroit Receiving Hospital, Wayne State Medical Center, Detroit, MI*
- 2007 Optimizing Blood Pressure in Neurological Emergencies. Neurology Grand Rounds, *SUNY Downstate Medical Center, Brooklyn, NY*
- 2007 Inside the Black Box: Insights into the Comatose Injured Brain. Neurology Grand Rounds, *University of Massachusetts Medical Center, Worcester, MA*
- 2007 Recombinant Factor VIIa for Intracerebral Hemorrhage. Anesthesiology Grand Rounds, *The Brigham and Women's Hospital, Boston, MA*
- 2007 Inside the Black Box: New Insights into the Comatose Injured Brain. Critical Care Medicine Grand Rounds, *University of Pittsburgh Medical Center, Pittsburgh, PA*.
- 2007 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *Oregon Health and Sciences University, Portland, OR*
- 2008 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *University of Maryland School of Medicine, Baltimore, MD*
- 2008 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *Johns Hopkins School of Medicine, Baltimore, MD*
- 2008 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *McKnight Neurological Institute, Shands Medical Center, University of Florida, Gainesville, FL*
- 2009 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *Medical College of Wisconsin, Milwaukee, WI*

- 2009 New Concepts in the Management of Intracranial Pressure. Neurology/Neurosurgery Grand Rounds, *University of Mississippi Medical Center, Jackson, MS*
- 2010 Neurointensive Care of Stroke. Institut D'Investigations Biomediques August Pi i Sunyer Lecture, *Hospital Clinic, Barcelona, Spain*
- 2010 Electrical Brain Rhythms of Death. Neurology/Neurosurgery Grand Rounds, *University of Heidelberg, Heidelberg, Germany.*
- 2011 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *University of Washington School of Medicine, St Louis, MO*
- 2012 Cardiocerebral Resuscitation. Department of Neurology Grand Rounds, *University of Utah, Salt Lake City, UT*
- 2013 Inside the Black Box. Illuminating the Comatose Human Brain. Department of Neurology Grand Rounds, *Beth Israel Deaconess Medical Center, Boston, MA*
- 2014 SAH: New Concepts. Department of Neurosurgery, *Memorial Hermann Hospital, UT Houston Medical Center, Houston TX*
- 2016 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *Cedars Sinai Medical Center, Los Angeles, CA*

INVITED LECTURES

- 1994 Neurogenic cardiac and pulmonary disturbances in subarachnoid hemorrhage. Neurology/Neurosurgery Grand Rounds, *Beth Israel Medical Center, New York, NY.*
- 1994 Subarachnoid hemorrhage: neurogenic cardiac and pulmonary effects. Neurology Grand Rounds, *Neurological Institute, Columbia-Presbyterian Medical Center, New York, NY.*
- 1995 Fluid management in subarachnoid hemorrhage. Neurosurgery Grand Rounds, *Neurological Institute, Columbia-Presbyterian Medical Center, New York, NY*
- 1995 Subarachnoid hemorrhage. Internal Medicine Grand Rounds, *Horton Hospital, Middletown, NY*
- 1995 Pathophysiology and management of increased intracranial pressure. Pediatric Neurology Grand Rounds, *Neurological Institute, Columbia-Presbyterian Medical Center, New York, NY.*
- 1995 Evaluation and management of altered mental status. Medical House Staff Conference, *Department of Medicine, Columbia-Presbyterian Medical Center, New York, NY*
- 1995 Neurologic aspects of eclampsia. Internal Medicine Grand Rounds, *Department of Medicine, Roosevelt Hospital, New York, NY.*
- 1996 Neurogenic cardiac and pulmonary disturbances in acute subarachnoid hemorrhage. Internal Medicine Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*

- 1996 Neurocardiology in the neuro-ICU: A practical approach. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1996 Physiology of consciousness and pathophysiology of coma. 18th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 1996 Recent advances in neurocritical care. Neurology Grand Rounds, *Long Island Jewish Medical Center, New Hyde Park, NY*
- 1996 Update in critical care neurology. *Westchester Academy of Medicine, Purchase, NY*
- 1996 Myasthenic crisis. Neurology Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1996 Neurogenic cardiac and pulmonary disturbances in acute subarachnoid hemorrhage. Neurology Grand Rounds, *New York University School of Medicine, New York, NY*
- 1996 Update in neurological intensive care. Neurology Grand Rounds, *Saint Vincents Hospital, New York College of Medicine, New York, NY*
- 1996 Update in neurological intensive care. Internal Medicine Grand Rounds, *Passaic General Hospital, Passaic, NJ*
- 1996 Update in neurological intensive care. Internal Medicine Grand Rounds, *Elizabeth Medical Center, Elizabeth, NJ*
- 1996 Physiology of consciousness and pathophysiology of coma. 19th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 1997 Neurological emergencies. Bennie and Martha Benjamin Foundation Medical Lecture Series. Gov. Juan F. Luis Hospital, St. Croix; Gov. Roy L. Schneider Hospital, St. Thomas; U.S. Virgin Islands.
- 1997 Update on the management of subarachnoid hemorrhage. Seminars on Advances in Medicine. *Mercy Medical Center, Rockville Center, NY.*
- 1997 Withdrawing life support: a hands-on perspective. New York City Chapter of the American Association of Critical Care Nurses. *Hunter College, New York, NY.*
- 1997 Myasthenic crisis. Neurology Grand Rounds, *New York University School of Medicine, New York, NY.*
- 1997 Myasthenic crisis. Neurology Grand Rounds, *Saint Vincents Hospital, New York College of Medicine, New York, NY.*
- 1997 Management of dural sinus thrombosis. Pediatric Neurology Grand Rounds, *Neurological Institute, Columbia-Presbyterian Medical Center, New York, NY.*
- 1998 Neurogenic cardiac injury: a silent killer. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1998 Physiology of consciousness and pathophysiology of coma. 20th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 1998 ICU management of stroke. Keynote Address, Norwalk Hospital Critical Care Symposium, *Norwalk Hospital, Norwalk CT.*

- 1998 Intracerebral hemorrhage. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1998 Intracerebral hemorrhage: past, present, and future. Neurology Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1998 Update in neurological intensive care. Neurology Grand Rounds, *New York Hospital-Queens Division, New York, NY*
- 1998 Withdrawal of life support. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1999 ICU management of stroke. Medical Grand Rounds, *Stamford Hospital, Stamford CT.*
- 1999 Physiology of consciousness and pathophysiology of coma. 21th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 1999 Stepwise management of elevated intracranial pressure in the ICU. Critical Care Grand Rounds, *St. Francis Hospital, Poughkeepsie, NY.*
- 1999 Sedation in the neuro-ICU. Neurosurgery Grand Rounds, *SUNY Downstate Medical Center, Brooklyn, NY.*
- 1999 Update on ICP management. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1999 Neurological examination made simple. Medical Housestaff Conference, *St. Vincents Medical Center, Bridgeport, CT*
- 1999 Acute management of head injury. The Third Annual Trauma Education Day, presented by *Mid-Hudson Health Continuing Medical Education and the George T. Whalen Trauma Center, St. Francis Hospital, Casperkill Country Club, Poughkeepsie, NY.*
- 1999 Current management of the neuro-intensive care patient. Critical Care Essentials, presented by the *American Association of Critical Care Nurses, NYC Chapter, New York Marriot Financial Center Hotel, NY, NY.*
- 1999 ICP therapy and sedation in neurocritical care. Department of Anesthesiology Grand Rounds, *St. Barnabas Medical Center, Livingston, NJ*
- 1999 Catastrophic stroke: Y2K and beyond (with Drs. H. Duong and M. Elkind). Advances in Clinical Neurosciences: Neurological Institute Grand Rounds. *Columbia-Presbyterian Medical Center, New York, NY.*
- 1999 Advances in acute stroke management. Bennie and Martha Benjamin Foundation Medical Lecture Series. *Gov. Juan F. Luis Hospital, St Croix; Gov. Roy L. Schneider Hospital, St. Thomas; U.S. Virgin Islands.*
- 1999 Critical care of subarachnoid hemorrhage. Department of Neurology Grand Rounds, *New Jersey Neuroscience Institute, John F. Kennedy Medical Center, Edison, NJ*
- 2000 Subarachnoid hemorrhage. Medical Grand Rounds, *Mountainside Medical Center, Montclair, NJ.*
- 2000 Physiology of consciousness and pathophysiology of coma. 22nd Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*

- 2000 Recent advances in neurocritical care. Department of Medicine Grand Rounds, *Winthrop University Hospital, Mineola, NY*
- 2000 Head injury: emergency management. In: Brain Attacks: Recognition & Management of Neurological Emergencies. *Columbia-Presbyterian Medical Center, New York, NY*
- 2000 Treatment of intracranial hypertension: what works and what doesn't. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, NY, NY.*
- 2000 Recent advances in neurocritical care. Medical Grand Rounds, *St. Vincents Medical Center, Bridgeport, CT*
- 2000 Intracerebral hemorrhage: pathophysiology & management. Department of Neurology Grand Rounds, *NYU Medical Center, New York, NY.*
- 2000 Practice and pitfalls of withdrawing life support. Department of Medicine Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2000 Clarifying confusion: evaluation of altered mental status. Department of Medicine House Staff Lecture Series, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2000 Management of brain attack. Clinical Nursing and Technology in a New Millennium: *Annual Meeting of the Philippine Nurses Association of New York, Inc., New York Marriot World Trade Center, New York, NY.*
- 2000 Withdrawing life support: ethical and clinical considerations. Department of Neurology Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2000 Myasthenic crisis. Medical Grand Rounds, *NYU Beekman Downtown Hospital, New York, NY*
- 2000 Pathophysiology and management of increased intracranial pressure. Neurology Grand Rounds, *Long Island Jewish Medical Center, New Hyde Park, NY*
- 2001 Evaluation and management of coma. Medical Grand Rounds, *Mercy Medical Center, Rockville Center, NY.*
- 2001 Endovascular management of vasospasm: the neuro-intensivists perspective. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2001 Advances in neurocritical care. Neurology/Neurosurgery Grand Rounds, *North Shore University Hospital, Manhasset, NY*
- 2001 Ultra-early hemostatic therapy for acute intracerebral hemorrhage: The NovoSeven ICH Trial. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2001 ICU management of elevated intracranial pressure. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2001 Evidence-based management of severe traumatic brain injury. Brain Trauma Foundation lecture, *Staten Island University Hospital, New York, NY.*
- 2001 Evidence-based management of severe traumatic brain injury. Brain Trauma Foundation lecture, *Erie County Medical Center, Buffalo, NY.*

- 2001 Management of elevated intracranial pressure: a stepwise protocol. Neurology Grand Rounds, *Westchester Medical Center/New York Medical College, Valhalla, NY.*
- 2002 Management of elevated intracranial pressure: a stepwise protocol. Anesthesia/Critical Care Grand Rounds, *Mount Sinai Medical Center, New York, NY*
- 2001 Case study: Induced hypertension for acute ischemic stroke. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Update in neurocritical care. In: Diagnosis and Treatment of Brain Failure. Organ Failure 2001-2002; Evolving Concepts in Organ Failure Management and Transplantation Therapies. *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Neurological complications of cardiac surgery. Neurological Symposium: Medical Grand Rounds, *Staten Island University Hospital, New York, NY.*
- 2002 Physiology of consciousness and pathophysiology of coma. 24th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 2002 Cognitive dysfunction and quality of life after subarachnoid hemorrhage. Neurology Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Medical management of intracranial pressure in stroke patients. In: Management of Cerebrovascular Disorders for the New Millennium. The Connecticut Neurological Society Annual Meeting 2002. *Farmington Marriott, Hartford Hospital, Hartford, CT*
- 2002 Practical neurological examination. Medical House Staff Conference, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Neurological emergencies: intensive care of stroke. Department of Medicine Grand Rounds, *Nassau County Medical Center, Hempstead, NY*
- 2002 Refractory status epilepticus. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Assessment of outcome after subarachnoid hemorrhage: beyond the Glasgow Outcome Scale. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Clarifying confusion: evaluation of altered mental status. Department of Medicine House Staff Lecture Series, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Evidence-based management of severe traumatic brain injury. Neurology Grand Rounds, *Long Island Jewish Medical Center, New Hyde Park, NY*
- 2003 Critical care of severe traumatic brain injury. Neurology Grand Rounds, *NYU Medical Center, New York, NY.*
- 2003 Physiology of consciousness and pathophysiology of coma. 25th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY*
- 2003 Acute bacterial meningitis. Department of Medicine Housestaff Lecture Series, *Columbia-Presbyterian Medical Center, New York, NY.*

- 2003 Case discussion: reversal of locked-in syndrome. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2003 Evaluation of altered mental status. Medical House Staff Conference, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2003 Update in neurological intensive care. Department of Medicine Grand Rounds, *Stamford Hospital, Stamford CT.*
- 2003 Advances in treatment of ischemia-associated brain edema. In: 2003 Stroke Update: Advances in Treatment, Prevention & Rehabilitation. *New York Hospital Queens, Flushing, NY*
- 2003 Control of blood pressure in neurological emergencies. In: Neurocritical Care Update. New York City Chapter of the American Association of Critical Care Nurses. *NYU Medical Center and Mt Sinai Medical Centers, New York, NY.*
- 2003 Control of blood pressure in neurological emergencies. Department of Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2004 New approaches to the treatment of intracranial hemorrhage. Department of Medicine Grand Rounds, *Genesys Medical Center, Flint, MI.*
- 2004 Physiology of consciousness and pathophysiology of coma. 26th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 2004 New approaches to the treatment of intracranial hemorrhage. Department of Medicine Grand Rounds, *Phelps Memorial Hospital, Sleepy Hollow, NY*
- 2004 Brain tissue oxygen monitoring in neurocritical care. Department of Neurosurgery Grand Rounds, *Columbia-University Medical Center, New York, NY*
- 2004 Critical care of intracerebral hemorrhage. *Baltimore Stroke Club, Baltimore, MD*
- 2004 Vasoactive therapy in neurocritical care. Critical Care Grand Rounds, *California Pacific Medical Center, San Francisco, CA*
- 2004 Therapeutic temperature modulation in neurocritical care: dawn of the ice age. Department of Neurology Grand Rounds, *Neurological Institute, Columbia University Medical Center, New York, NY*
- 2004 Rescue, resuscitation and salvage of the near-dead: Neurocritical care 2004. *Department of Medicine Grand Rounds, Metropolitan Hospital Center, New York, NY*
- 2004 Critical care management of intracranial pressure. Department of Surgical Trauma and Critical Care Grand Rounds, *Crozer Chester Medical Center, Crozer, PA*
- 2004 Vasoactive therapy in critically ill patients. In: 2004 Barrow Nursing Symposium, *Barrow Neurological Institute, Phoenix AZ*
- 2004 Treatment modalities of acute hypertension. In: Challenges 2004. *Presented by The American Association of Critical-Care Nurses New York City Chapter, Helmsly Hotel, New York, NY.*
- 2004 Neurological emergencies. Department of Medicine Grand Rounds, *Mercy Medical Center, Rockville Center, NY.*

- 2004 Management of malignant MCA infarction. Critical Care Grand Rounds, *Columbia University Medical Center, New York, NY.*
- 2004 Rescue, resuscitation and salvage of the near-dead: neurocritical care 2004. Department of Neurology Grand Rounds, *Weil-Cornell Medical Center, New York, NY.*
- 2005 Neurocritical care. In: The Annual New York Metropolitan Symposium on Managing Critical Care Systems: Chronic Critical Illness. December 12, 32004, New York Academy of Sciences. *Presented by Albert Einstein College of Medicine and Montefiore Medical Center.*
- 2005 Emergency and critical care management of intracerebral hemorrhage. *Department of Medicine Grand Rounds, Mayo Clinic Jacksonville, Jacksonville, FL.*
- 2005 Update in neurological intensive care. *North Florida Neurological Association, Nemours Children's Clinic, Jacksonville, FL.*
- 2005 Management of cerebral edema and ICP in stroke patients. Neurovascular Conference, *Swedish Medical Center, Denver, CO.*
- 2005 Update in neurological intensive care. *Colorado Neurological Association, Denver, CO.*
- 2005 Emergency and critical care management of intracerebral hemorrhage. *Phoenix Neurovascular Society, Phoenix, AZ*
- 2005 Management of blood pressure in neurological emergencies. Department of Medicine Grand Rounds, *St Barnabas Medical Center, Bronx, NY.*
- 2005 Update in Neurocritical Care, Department of Neurology Grand Rounds, *NYU Medical Center, New York, NY*
- 2005 New therapeutic strategies for intracerebral hemorrhage. In: Current Topics in Neurology: Stroke. *New York Methodist Hospital, Brooklyn, NY.*
- 2005 Update in neurocritical care. Medicine Grand Rounds, *Holy Name Hospital, Teaneck, NJ*
- 2005 Emergency and critical care management of intracerebral hemorrhage. Department of Neurology Grand Rounds, *Beth Israel Medical Center, New York, NY*
- 2005 Emergency and critical care management of intracerebral hemorrhage. Department of Neurology Grand Rounds, *St. Luke's Hospital Center, Houston, TX.*
- 2005 Intervention in acute stroke: the first 60 minutes. First Annual Network Nurses Luncheon, *Columbia University Medical Center, New York, NY.*
- 2005 Emergency and critical care management of intracerebral hemorrhage. Neurology Grand Rounds, *University of Arkansas for Medical Sciences, Little Rock, AS*
- 2005 Update in neurocritical care. Critical Care Grand Rounds, *Columbia University Medical Center, New York, NY.*
- 2005 Management of intracerebral bleeding. In: Critical Care: *A Multidisciplinary Approach. Saint-Lukes/Roosevelt Medical Center, New York, NY.*
- 2005 Management of intracerebral hemorrhage. Bimonthly lecture, *Philadelphia Neurological Society, Philadelphia, PA*
- 2006 Control of blood pressure in neurological emergencies. Emergency Medicine/Critical Care Grand Rounds, *Hackensack University Medical Center, Hackensack, NJ*

- 2005 ICU management of subarachnoid hemorrhage. North Shore/LIJ Neurology Grand Rounds, *North Shore University Hospital, Manhasset, NY*
- 2005 Update in neurocritical care. Department of Neurology Grand Rounds, *University of Louisville School of Medicine, Louisville, KY*
- 2005 Management of blood pressure in neurological emergencies. Department of Emergency Medicine Grand Rounds, *Beth Israel Deaconess Medical Center, Boston, MA*
- 2005 Critical care of subarachnoid hemorrhage. *Presented at the First Annual Columbia University J. Lawrence Poole Neurosurgical Research Symposium, New York, NY*
- 2006 Update in neurocritical care. Pulmonary/Critical Care Grand Rounds, *NYU Medical Center, New York, NY*
- 2006 Death is not the enemy, but occasionally needs help with timing. In: *American Stroke Association Brooklyn Stroke Symposium, Marriott Brooklyn Bridge, Brooklyn, NY*
- 2006 Neurocritical Care. In; Emergencies: What We Can Do to Help Ourselves. Presented at the Columbia Presbyterian Health Sciences Advisory Council, *Columbia University Medical Center, New York, NY*.
- 2006 Emergency and critical care management of intracerebral hemorrhage. In: Stroke: The Evolution of Care. Advocate Health Care CME Conference, *Drury Lane Theater, Oakbrook Terrace, IL*
- 2006 Acute Stroke: The first 60 minutes. Department of Medicine Grand Rounds, *St Vincents Medical Center, Bridgeport, CT*
- 2006 Panelist. "Teamwork": Saving Brains, Saving Lives. 2006 Educational Gala, The Manhattan Chapter of the Emergency Nurses Association in Collaboration with the *Mount Sinai Emergency Medicine Department. October 3, 2006.*
- 2006 Bug out! Stopping nosocomial infections in neuro-ICU. Critical Care Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2006 Management of acute stroke. Department of Medicine Grand Rounds, *New York Hospital-Queens Medical Center, New York, NY*
- 2006 Management of acute Stroke. Department of Medicine Grand Rounds, *Christiana Medical Center, Newark, DE*
- 2006 Inside the black box: neuromonitoring in neurocritical care. Neurology Housestaff Conference, *Thomas Jefferson Medical Center, Philadelphia, PA*
- 2006 Vasoactive therapy in neurocritical care. Pulmonary/Critical Care Grand Rounds, *Hahnemann Medical Center, Drexel School of Medicine, Philadelphia, PA*
- 2006 Management of increased intracranial pressure. Pulmonary/Critical Care Grand Rounds, *North Shore University Hospital, Manhasset, NY*
- 2007 Hypothermia for cardiac arrest. Emergency Medicine Grand Rounds, *New York Presbyterian Hospital, New York, NY*
- 2007 Therapeutic hypothermia: dawn of the ice age. Department of Medicine Grand Rounds, *Weiler Division of the Albert Einstein College of Medicine, Bronx, NY*

- 2007 Therapeutic hypothermia: dawn of the ice age. Department of Medicine Grand Rounds, *Moses Division of the Albert Einstein College of Medicine, Montefiore Hospital, Bronx, NY*
- 2007 Management of brain hemorrhages. In: 2nd Annual Treatment and Prevention of Stroke in African Americans and Hispanic Populations: Closing the Gap in Stroke Disparities. *Jointly Sponsored by Harlem Hospital Center, National Stroke Association, and Columbia University College of Physicians and Surgeons*
- 2007 Contemporary management of ICH. In: Brooklyn Stroke Symposium. *New York Chapter of the American Heart Association and Methodist Hospital, Brooklyn, NY*
- 2007 Inside the black box. Illuminating the comatose brain. Neuroscience Grand Rounds, *Yale University School of Medicine, New Haven, CT*
- 2007 Management of intracerebral hemorrhage. Medicine Grand Rounds, *Richmond University Medical Center, Staten Island, NY*
- 2007 Emergency management of acute stroke. In: Update in the Comprehensive Care of Stroke. *St Joseph's Medical Center, Paterson, NY*
- 2007 Factor VIIa for ICH: The FAST Trial. Neurology Grand Rounds, *Columbia University Medical Center, New York, NY.*
- 2007 Optimization of blood pressure in neurological emergencies. *Medicine Grand Rounds, New York Downtown Hospital, New York, NY*
- 2007 The FAST Trial. Neuroresuscitation Journal Club. *Department of Emergency Medicine, Mt Sinai School of Medicine, New York, NY*
- 2007 Hypothermia for cerebral preservation after cardiac arrest: the new paradigm. *Critical Care Grand Rounds, Columbia University Medical Center, New York, NY*
- 2007 Hypothermia for cerebral preservation after cardiac arrest. 3rd Annual New York Presbyterian Columbia Nurses Luncheon, *Columbia University Medical Center, New York, NY*
- 2007 Hypothermia for cerebral preservation after cardiac arrest: the new paradigm. Pulmonary/Critical Care Medicine Noon Conference, *Weill Cornell Medical Center, New York, NY*
- 2007 Neurocritical Care Update. Neurosurgery Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2007 Intracerebral hemorrhage. Neurovascular Grand Rounds, *Hackensack University Medical Center, Hackensack, NJ*
- 2007 Neurocritical care. Keynote Lecture, Rocky Mountain Stroke Summit, *Swedish Hospital and the Colorado Neurological Institute, Denver, CO*
- 2007 Hypothermia for cardiac arrest: The Evidence Base. *Project Hypothermia, Greater New York Hospital Association, New York, NY*
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- 2007 Fluid management in the neuro-ICU. Department of Neurology Grand Rounds, *New York Medical College, Valhalla, NY*

- 2007 Optimization of blood pressure in neurological emergencies. Department of Medicine Grand Rounds, *St Barnabas Medical Center, Bronx, NY*
- 2008 Myasthenic crisis. Medical Grand Rounds, *Community Medical Center, Toms River, NY*
- 2008 Update in neurocritical care. Department of Medicine Noon Conference, *St Francis Hospital, Lynwood, CA.*
- 2008 Hypothermia in neurocritical care. Neurology Grand Rounds, *Hoag Hospital, Los Angeles, CA.*
- 2008 Hyponatremia in neurological patients: who, how, why? Endocrinology Weekly Conference, *Columbia University Medical Center, New York, NY*
- 2008 Subarachnoid hemorrhage: new insights. Neurocritical Care Noon Conference, *Johns Hopkins School of Medicine, Baltimore, MD*
- 2008 Fluid resuscitation in neurocritical care. Trauma Conference, *Maryland Shock Trauma Center, Baltimore, MD*
- 2008 Emergency and critical care management of intracerebral hemorrhage. Neurology Grand Rounds, *St Lukes Roosevelt Hospital, Roosevelt Division, New York, NY*
- 2008 Optimization of blood pressure in neurological emergencies. Neurovascular Conference, *McKay Dee Hospital, Layton, UT*
- 2008 Inside the black box. Illuminating the comatose brain. Neuroscience Grand Rounds, *Intermountain Medical Center, Salt Lake City, UT*
- 2008 Hypothermia for cardiac arrest: the evidence base. Emergency Medicine Grand Rounds, *St Barnabas Medical Center, Bronx, NY*
- 2008 Hypothermia for cardiac arrest: the evidence base. Emergency Medicine Grand Rounds, *New York Downtown Hospital, New York, NY*
- 2008 Hypothermia for cardiac arrest: the evidence base. Emergency Medicine Grand Rounds, *Lincoln Hospital, Bronx, NY*
- 2008 New concepts in the management of subarachnoid hemorrhage. Neurology Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2008 Hypothermia for cardiac arrest: the evidence base. Internal Medicine Grand Rounds, *Metropolitan Hospital, New York, NY*
- 2008 Evidence-based management of severe TBI: The 2006 BTF Guidelines. Surgical Grand Rounds, *Winthrop University Hospital, Mineola, NY*
- 2008 Medical management of SAH. The 2nd Annual Lawrence M. Brass Stroke Symposium: hemorrhagic Stroke. *Yale University School of Medicine, New Haven, CT*
- 2008 Cooling technologies: an overview. In: Project Hypothermia: How to Cool Lunch and Learn. *The Greater New York Hospital Association, New York, NY.*
- 2008 Optimization of blood pressure in neurological emergencies. Critical Care Grand Rounds, *Shands Medical Center, Gainesville, FL*

- 2008 Multimodality monitoring. New York Presbyterian Nursing Education Day, *Columbia University Medical Center, New York, NY*
- 2008 Spontaneous intracerebral hemorrhage. In: Neurocritical Care: The 22nd Annual Kjeldgaard Day Symposium, *Maine Medical Center, Portland, Maine*
- 2008 ICU management of subarachnoid hemorrhage. In: Neurocritical Care: The 22nd Annual Kjeldgaard Day Symposium, *Maine Medical Center, Portland, Maine*
- 2008 Hypothermia for cardiac arrest: the evidence base. Internal Medicine Grand Rounds, *Lenox Hill Hospital, New York, NY*
- 2008 Optimizing blood pressure in neurological emergencies. The 5th Annual Artiss N. Powell Jr Memorial Lecture, *Departments of Medicine and Neurology, Robert Wood Johnson Medical School, New Brunswick, NJ*
- 2009 Hypothermia for cardiac arrest: the evidence base. Pulmonary/Critical Care Grand Rounds, *SUNY Stony Brook School of Medicine, Stony Brook, NY*
- 2009 Induced hypothermia. In: The 5th Annual Mt Sinai ED Critical Care Conference. Strengthening the Chain of Survival: Bleeding Edge Management of Cardiac Arrest. *Mt Sinai School of Medicine, New York, NY*
- 2009 Hypothermia for cardiac arrest: the evidence base. Pulmonary/Critical Care Grand Rounds, *Miller School of Medicine, University of Miami, Miami, FL*
- 2009 Hypothermia for cardiac arrest: the evidence base. Department of Medicine Grand Rounds, *St Francis Hospital, Roslyn, NY*
- 2009 Cardiocerebral resuscitation, Department of Neurology Grand Rounds, *Montefiore Medical Center, Bronx, NY*
- 2009 Emergency Treatments for Acute Stroke: Time Equals Brain. In: Protect and Maximize Your Brain. *New York Presbyterian Hospital. The Henry Morrison Flagler Museum, Palm Springs, FL*
- 2009 Inside the black box. Illuminating the comatose human brain. Department of Neurology Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2009 Emergency Treatments for Acute Stroke: Time Equals Brain. In: Brainstorms. The Columbia Presbyterian Health Sciences Advisory Council, *New York Presbyterian Hospital, New York, NY*
- 2009 Emergency Treatments for Acute Stroke: Time Equals Brain. In: Brainstorms. The Whitney-Harnkess Society, *New York Presbyterian Hospital, New York, NY*
- 2009 Neurocritical care from the neck down. Neurosurgery Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2009 Critical care management of intracerebral hemorrhage. Capital Health Stroke Grand Rounds, *Capital Health Medical Center, Trenton, NJ*
- 2009 New concepts in subarachnoid hemorrhage. Department of Neurology Grand Rounds, *Weill-Cornell Medical Center, New York, NY*
- 2009 Therapeutic hypothermia: who and how? *Therapeutic Temperature Management Master Summit, Mission Viejo, CA*

- 2009 Neurocritical care: Life support PLUS brain support. Neuroscience Grand Rounds, *Glendale Adventist Medical Center, Los Angeles, CA*
- 2009 Hypothermia for in-hospital cardiac arrest: pro. In: Critical Care Controversies. *Greater New York Hospital Association, New York, NY*
- 2009 Therapeutic hypothermia in the ICU. In: 3rd Annual Trauma and Critical Care Symposium, *St Francis Hospital, The Franklin D. Roosevelt Presidential Library and Museum, Hyde Park, NY*
- 2009 Cardiocerebral Resuscitation. Cardiology Grand Rounds, *Jack D. Weiler Hospital of the Albert Einstein College of Medicine, Bronx, NY*
- 2009 Neuro-ICU versus medical ICU management: do neurointensivists matter? In: Treatment and Prevention of Stroke in African-American and Hispanic Populations. *Harlem Hospital Center, New York, NY*
- 2009 Neurocritical care: brain support. Neurology/Neurosurgery Grand rounds, *University of Medicine and Dentistry of New Jersey, Newark, NY*
- 2009 Optimizing blood pressure after acute brain injury. Cardiology Grand Rounds, *Robert Wood Johnson School of Medicine, New Brunswick, NJ*
- 2010 Optimizing blood pressure in acute stroke. 2010 Annual Meeting, *New Jersey Chapter of the American College of Physicians, Iselin, NJ*
- 2010 Cardiocerebral resuscitation. Heart Failure Grand Rounds, Division of Cardiology, *Columbia University Medical Center, NY, NY*
- 2010 Intracranial hemorrhage for the internist. In: Spring Update in Internal Medicine, *Richmond University Medical Center, Staten Island, NY*
- 2010 Management of ischemic brain edema.. In: Stroke care from Prevention to Intervention: Second Annual Baptist Hospital Stroke Symposium. *Baptist Hospital, Jacksonville.FL*
- 2010 Critical care of stroke. Keynote Speaker. In: 3rd Annual Meridian Stroke Symposium: A Multidisciplinary Approach to Stroke management. *Ocean Medical Center, Point Pleasant, NJ.*
- 2010 Families should be present in the ICU 24/7: Pro. In: 2nd Annual Symposium on Critical Care Controversies. *Greater New York Hospital Association, New York, NY*
- 2010 ICU management of catastrophic stroke. In: 4th Annual Treatment and Prevention of Stroke in Black and Hispanic Populations. *Harlem Hospital, New York, NY*
- 2010 Update in neurocriticalcare. Neurology Grand Rounds, *Beth Israel Medical Center, New York, NY.*
- 2011 ICP management: a stepwise protocol & Therapeutic temperature modulation. In: Neurocritical Care Symposium. *The Valley Hospital, Ridgewood, NJ*
- 2011 Neurological emergencies: meeting the challenge. Medical Grand Rounds. *Stamford Hospital, Stamford, CT*
- 2011 Cardio-cerebral resuscitation. Medical Grand Rounds, *Phelps Memorial Hospital, Tarrytown, NY*
- 2011 Inside the black box: illuminating the comatose human brain. Neurology Grand Rounds, *Mt Sinai School of Medicine, New York, NY*

- 2011 Neuroemergencies. Neurology Grand Rounds, *St Likes Roosevelt Medical Center, Roosevelt Hospital, New York, NY*
- 2011 Therapeutic Hypotheria: An Update. *Noran Neurological Clinic, Abbott Northwestern Hospital, St Paul, MN*
- 2011 Acute stroke: thrombolysis and beyond. Neurosurgery Grand rounds, *Columbia University Medical Center, New York, NY*
- 2011 Neurological emergencies. Neurology Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2011 Hypothermia for Ischemic Stroke. In: Hypothermia and Resuscitation Training Institute at Penn, *University of Pennsylvania, Philadelphia, PA*
- 2011 ICU delirium can be prevented: Pro. In: 3rd Annual Symposium on Critical Care Controversies. *Greater New York Hospital Association, New York, NY*
- 2011 Critical care of stroke. North Shore/LIJ Neurology Grand Rounds, *North Shore Univcersity Hospital, Manhasset, NY*
- 2011 Update in neurcritical care. Critical Care Grand Rounds, *Beth Israel Medical Center, New York, NY.*
- 2012 Update in neurocritical care. In: Neurovascular Sympoium, *Hollywoord Presbyterian Medical Center, Los Angeles, CA*
- 2012 Inrracerebral hemorrhage. In: NYP Brain Attack and cerebrovascular Disease Update 2012. New York Academy of Medicine, *New York Presbyterian Hospital, New York, NY*
- 2012 Inside the black box. Illuminating the comatose human brain. Department of Neurosurgey Grand Rounds, *University of Utah, Salt Lake City, UT*
- 2012 Critical care of acute stroke. In: 2012 Annual Meridian Health Neuroscience Symposioium, *Medirien Health Neuroscience, Eatontown, NJ, May 19, 2012,*
- 2012 The future of acute stroke management. Keynote Speaker. In: The George F. Heinrich MD Annual Symposium. Stroke 2012: The Future of Acute Stroke management. *New York Hospital Queens, Flushing, NY*
- 2012 The future of acute stroke management. *Medicine Gand Rounds, Nassau University Medical Center, East Meadow, NY*
- 2012 Theraputic hypothermia and Intracerebral hemorrhage. In: Thirty Second Annual Symposium on Pulmonary, Infectious Diseases, and Critical Care. *Mercy General Hospital, Sacramento, CA*
- 2012 The future of stroke therapy. Internal Medicine Grand Rounds, *Hackensack University Medical Center, Hackensack, NJ*
- 2012 Fever control: how and for whom? and Therapeutic hypothermia. In: Miami Neuro Symposium. *Baptist Health South Florida, Herbert Wertheim College of Medicine, Coral Gables, FL*
- 2013 Cardiocerebral resuscitation. Neurology Grand Rounds, *Columbia University Medical Center, NY, NY*
- 2013 Intracranial pressure management. In: 4th Annual Critical Care Medicine Symposium: Neurocritical Care. *North Shore-LIJ Health System, Manhasset, NY*

- 2013 Neurocritical update: optimizing emergency care. In: 8th Annual Nurses Symposium, *New York Presbyterian Hospital, New York, NY*
- 2013 Cardiac arrest: The new frontier. Neurology Grand Rounds, *North Shore-LIJ Health System, Manhasset, NY*
- 2013 Panelist. In: Reversing Death: The Miracle of Modern Medicine. October 9th, 2013, *The New York Academy of Sciences, New York, NY*
- 2013 Refractory status epilepticus and subarachnoid hemorrhage: new approaches. In: Thirty Second Annual Symposium on Pulmonary, Infectious Diseases, and Critical Care. *Mercy General Hospital, Sacramento, CA*
- 2013 Update in neurocritical care. In: Neurosurgery Annual Clinical Day. *The American College of Surgeons Brooklyn and Long Island Chapter. Hempstead, NY*
- 2013 Beyond ICP: Brain multimodality monitoring. In: New York Neurosurgery: A Cushing Neuroscience Institute Symposium. *North Shore LIJ Health System, New York, NY*
- 2014 The future of acute stroke therapy. Medicine Grand Rounds. *Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY*
- 2014 Update in neurocritical care. In: Neurology Grand Rounds. *Rutgers New Jersey Medical School, Newark, NJ.*
- 2014 Frontiers in critical care. Department of Surgery Grand Rounds, *Icahn School of Medicine at Mount Sinai, New York, NY.*
- 2014 The future of acute stroke therapy. Department of Neurology Grand Rounds, *Mount Sinai Beth Israel Medical Center, New York, NY.*
- 2014 Neurological emergencies. Medicine Grand Rounds. *Lincoln Hospital, NY*
- 2014 Neurocritical care: the basics. Department of Neurosurgery Grand Rounds, *Icahn School of Medicine at Mount Sinai, New York, NY.*
- 2014 Frontiers in critical care. Department of Medicine Grand Rounds, *Icahn School of Medicine at Mount Sinai, New York, NY.*
- 2015 Update in neurocritical care. Department of neurology Grand Rounds, *SUNY Downstate Medical Center, Brooklyn, NY*
- 2015 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *NYU Langone Medical Center, New York, NY*
- 2015 The future of critical care. Critical Care / Emergency Medicine Grand Rounds, *New York Hospital Queens, New York, NY*
- 2015 Coma. Rehabilitation Medicine Grand Rounds, *Rusk Institute, NYU Medical Center, New York, NY.*
- 2015 Subarachnoid hemorrhage: new advances. Neurology Grand Rounds, *Mount Sinai Medical Center, New York, NY*
- 2015 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *Temple School of Medicine, Philadelphia, PA*

- 2016 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *Mount Sinai Beth Israel Medical Center, New York, NY*
- 2016 Time zero prognostication. In: Resuscitate NYC 2017. *Mount Sinai Medical Center, New York, NY*
- 2016 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *Weill Cornell Medical Center, New York, NY*
- 2016 Inside the black box. Illuminating the comatose human brain. Neurosurgery Grand Rounds, *Mount Sinai Medical Center, New York, NY*
- 2016 Stroke therapy: examining new evidence. In: Stroke Forum 2016, *The Ponte Vedra Inn, Jacksonville, FL*
- 2016 Inside the black box: illuminating the comatose human brain. In: 4th Annual Neurocritical Care Symposium, *The Valley Hospital, Ridgewood, NJ*
- 2016 ICH: The New Frontier and Illuminating the Comatose Brain. In: Thirty Sixth Annual Symposium on Pulmonary, Infectious Diseases, and Critical Care. *Dignity Health, California Northstate University School of Medicine, Sacramento, CA*
- 2016 Bleeding in the anticoagulated patient. In: Hospital Medicine Symposium: Mastering the Care of the Hospitalized Patient. *Mount Sinai Medical Center, New York, NY*
- 2017 Therapeutic temperature management: an update. Cerebrovascular Conference, Department of Neurology, *Boston University School of Medicine, Boston, MA*
- 2017 Fever control in the neuro-ICU. Cerebrovascular Conference, Department of Neurology, *Boston University School of Medicine, Boston, MA*
- 2017 Acute stroke: the endovascular revolution. In: New York State Thoracic Society 2017 Annual Scientific Assembly. *NYU Langone Medical Center, New York, NY*

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* *Senior or corresponding author*

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Letters to the Editor

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340. Lahiri S, Meyers E, Al-Mufti F, Claassen J, Mayer SA: Patient-powered reporting of modified Rankin Scale outcomes via the internet: a valid alternative to telephonic structured interview. *Neurocrit Care* 2014;21:S201.
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345. Lahiri S, Navi B, Lapidus DM, Agarwal S, Mangat HS, Claassen J, Park S, Mayer SA, Kamel H: relationship between tracheostomy and readmission rates among mechanically ventilated patients with stroke. *Stroke* 2015 (in press).
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348. Al-Mufti F, Schmidt JM, Meyes E, Dangayach N, Park S, Agarwal S, Mayer SA, Claassen J: Ultra early vasospasm following subarachnoid hemorrhage associated with increased morbidity and mortality poor outcome. *Neurology* 2015;(in press).
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350. Mizrahi MA, Melis M, Dangayach NS, Yoo JY, Gordon EL, MC, Marcuse LV, Mayer SA: New-onset refractory status epilepticus (NORSE): a case series. *Neurocrit Care* (submitted)
351. Mascitelli JR, Dangayach N, Wilson N, Shoirah H, Oermann E, Fifi JT, Paramasivam S, Gordon E, Tuhim S, Bederson JB, Mocco J, Mayer SA: Endovascular Therapy for Acute Stroke in the Mount Sinai Health System: The Role of Neurointensivist-Led System-Wide Triage. *Neurocrit Care* 2105;(in press).
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355. Agarwal S, Patel P, Rodriguez A, Foreman B, Valasquez A, Rahal S, Falo C, Mayer SA, Choi H, Claassen J: Prognostic significance of early onset seizures on neurological recovery after cardiac arrest.
356. Badjatia N, Schmidt JM, Claassen J, Sonnolly ES, Mayer SA, Seres D, Karmally W: Serum glutamine levels and hospital acquired infections after aneurysmal subarachnoid hemorrhage. *Crit Care Med* (in press)
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367. Melis M, Mizrahi M, Marcuse L, Fields M, Yoo J, Dangayach ND, Gordon E, Mayer SA: Non-convulsive seizures (NCS)/non-convulsive status epilepticus (NCSE) in neuro-ICU: clinical predictors and prognostication. *Neurocrit Care* 2016; 25:S172.
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370. Impact of electrographic seizure activity on outcomes among critically-ill patients with stroke. *Stroke* 2017;(in press).
371. Kim J, Feng R, Chartrain A, Sobotka S, Dangayach N, Mayer SA, Gordon E: Ventricular catheter tract hemorrhage as a risk factor for ventriculostomy related hemorrhage. *Neurology* 2017; (in press).
372. Wheelwright DS, Dangayach DS, Griffiths SA, Gordon E, Bederson J, Mayer SA: Does intra-ICU initiation of guided mindfulness meditation decrease anxiety and depression in SAH?: unique methodology for the neurocritical care setting. *Neurology* 2017; (in press).
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375. Griffiths SA, Francoeur CL, Gordon E, Dangayash N, Wheelwright D, Ramineni A, Ahmad J, Mayer SA: Performance of the EMCOOLs surface cooling system for acute fever control in neurocritical care patients. *Neurology* 2017; (in press).
376. Rasouli J, Ratner M, Chartrain A, Mayer SA, Gordon E, Dangayach N: Post-operative pain control after craniotomy: A meta-narrative review. *Neurology* 2017; (in press).

377. Dangayach N, Sobotka S, Lee J, Costa A, Gordon E, Mayer SA: Resilience, cognitive reserve and brain reserve in neurocritical care: a prospective cohort study. *Neurology* 2017; (in press).
378. Ramineni A, Dangayach N, Griffiths S, Keogh M, Wheelwright D, Sharma V, Mayer SA, Gidwani U, Ahmad J, Bederson JB, Mocco J: "I believe in miracles": implications for the neuro-ICU. *Neurology* 2017; (in press).
379. Feng R, Chartrain AG, Kim J, Sobotka S, Pain M, Dangayach NS, Mayer SA, Bederson JB, Gordon E: External ventricular drain related infection characteristics and outcomes: a case series. *Neurology* 2017; (in press).
380. Gordon B, Mayer SA, Gordon E, Dangayach N, et al: Caring for the whole person: resilience, spirituality and religious coping in the critical care environment. *Neurology* 2017; (in press).

PENDING ABSTRATS

Authors: M. Pain, W. Bartlett, S. Sobotka, J. Kim, J. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Big data analysis of Neurosurgical Intensive Care Unit GCS scores reveals redundancy and suggests opportunities for improvement in NSICU GCS measurements

Authors: J. Kim, W. Bartlett, M. Pain, S. Sobotka, J. B. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Analysis of GCS score monitoring reveals measurement inconsistency across various stages of NSICU workflow

Authors: W. Bartlett, M. Pain, J. Kim, S. Sobotka, J. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Clustering of GCS time-series data reveals relationship between in-hospital deterioration and outcome

1. Authors: M. Pain, W. Bartlett, S. Sobotka, J. Kim, J. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Big data analysis of Neurosurgical Intensive Care Unit GCS scores reveals redundancy and suggests opportunities for improvement in NSICU GCS measurements

Submitted: AANS

2. Authors: W. Bartlett, M. Pain, J. Kim, S. Sobotka, J. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Clustering of GCS time-series data reveals relationship between in-hospital deterioration and outcome

Submitted: AANS

3. Authors: J. Kim, W. Bartlett, M. Pain, S. Sobotka, J. B. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Analysis of GCS score monitoring reveals measurement inconsistency across various stages of NSICU workflow

Submitted: AANS

4. Authors: Rui Feng, Kelly Nicol, Margaret Pain, Joshua B. Bederson, Anthony Costa, Neha S. Dangayach

Title: Clinical Usage of Imaging Analysis Tools in Patients with Acute Stroke and Intra-axial Brain Tumors: A Systematic Review

Submitted: AANS

5. Authors: Julie Kim et al

Ventricular Catheter Tract Hemorrhage as a Risk Factor for Ventriculostomy Related Hemorrhage

Submitted: AAN and AANS

6. Authors: Rui Feng, Alexander G. Chartrain, Juhyun Kim, Stanislaw Sobotka, Margaret Pain, Neha S. Dangayach, Stephan A. Mayer, Joshua B. Bederson, Errol Gordon
Title: External Ventricular Drain Related Infection Characteristics and Outcomes: A Case Series
Submitted: AAN and AANS

7. Authors: Rui Feng, Kelly Nicol, Alexander G. Chartrain, Margaret Pain, Anthony Costa, James Sumowski, Joshua B. Bederson, Neha S. Dangayach
Title: Validation of Automated Segmentation for Measuring Brain Reserve in Patients Undergoing Craniotomies: A Preliminary Analysis
Submitted: AAN and AANS

8. Authors: Barbara Gordon et al
Title: Caring for the Whole Person: Resilience, Spirituality and Religious Coping in the Critical Care Environment
Submitted: AAN, AANS

9. Authors: Neha Dangayach et al
Title: Resilience, Cognitive Reserve and Brain Reserve in Neurocritical Care: A prospective Cohort Study
Submitted: AAN, AANS

11. Authors: Jonathan Rasouli et al
Title: Post-operative pain control after craniotomy: A meta-narrative review
Submitted: AAN, AANS

12. Authors: Stephen A Griffiths, Charles Francoeur, Errol Gordon, Neha Dangayach, Danielle Wheelwright, Anil Ramineni, Javaad Ahmad, Stephan A Mayer
Title: Performance of the EMCOOLs Surface Cooling System For Acute Fever Control In Neurocritical Care Patients
Submitted: AAN

13. Authors: Anil Ramineni, Neha Dangayach, Stephen Griffiths, Maggie Keough, Danielle Wheelwright, Vansh Sharma, Deborah Marin, Javaad Ahmed, Umesh Gidwani, Joshua Bederson, J Mocco, Errol Gordon, Stephan Mayer
Title: "I believe in miracles": Implications for the Neuro-ICU
Submitted: AAN

14. Charles Francoeur et al
Title: Evaluation of a Novel Noninvasive Cerebral Perfusion Monitor (C-Flow) After Cardiac Arrest
Submitted: AAN

Wei D, Oxley TJ, Nistal DA, Shoirah H, Chartrain A, Mascitelli JR, Wilson N, Liang J, Awad A, Kellner CP, De Leacy RA, **Mayer SA**, Tuhrim

S, Bederson JB, Mocco J, Fifi JT. High THRIVE score predicts mortality but not overall clinical improvement for neurointervention in ischemic stroke. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Wei D, Oxley TJ, Nistal DA, Shoirah H, Mascitelli JR, Wilson N, Liang J, Awad A, Kellner CP, De Leacy RA, **Mayer SA**, Tuhirim S, Bederson JB, Mocco J, Fifi JT. Each minute in the puncture-to-recanalization interval has more weight on clinical outcome than onset-to-puncture. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Wei D, Oxley TJ, Nistal DA, Mascitelli JR, Wilson N, Stein L, Liang J, Turkheimer L, Schwegel C, Awad A, Shoirah H, Kellner CP, De Leacy RA, **Mayer SA**, Tuhirim S, Bederson JB, Mocco J, Fifi JT. Comparison of Three Stroke Delivery Protocols: Efficacy of Mobile Neurointerventional Teams. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Wei D, Oxley TJ, Nistal DA, Shoirah H, Mascitelli JR, Chartrain A, Wilson N, Liang J, Awad A, Kellner CP, De Leacy RA, **Mayer SA**, Tuhirim S, Bederson JB, Mocco J, Fifi JT. Distribution of access to endovascular stroke therapy in New York City. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Wei D, Oxley TJ, Nistal DA, Shoirah H, Chartrain A, Mascitelli JR, Wilson N, Liang J, Awad A, Kellner CP, De Leacy RA, **Mayer SA**, Tuhirim S, Bederson JB, Mocco J, Fifi JT. Direct aspiration thrombectomy has superior procedure times and clinical outcomes compared to stentriever. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Wei D, Oxley TJ, Nistal DA, Shoirah H, Mascitelli JR, Chartrain A, Wilson N, Liang J, Awad A, Kellner CP, De Leacy RA, **Mayer SA**, Tuhirim S, Bederson JB, Mocco J, Fifi JT. Community socioeconomic status and access to endovascular stroke care in New York City-based Hospital Network. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Dr. Aaron McMurtray

Revised June 5th, 2016

Aaron McMurtray, M.D., Ph.D.**CONTACT INFORMATION:**

Mailing Address: Neurology Department
Harbor-UCLA Medical Center
1000 West Carson Street
Torrance, CA 90509

Phone: 310-222-3897

E-mail Address: amcmurtray@dhs.lacounty.gov

EDUCATION:

B.A. Chemistry and Biology, Claremont McKenna College	5/1996
M.D. Vanderbilt University School of Medicine	5/2000
Internal Medicine Internship, Ohio State University	7/1/2000-6/30/2001
Neurology Residency, Harbor-UCLA	7/1/2001-6/30/2004
Chief Resident in Neurology, Harbor-UCLA	7/1/2003-6/30/2004
Behavioral Neurology Fellowship, UCLA/West L.A. V.A.	7/1/2004-6/30/2006
Ph.D. Biomedical Sciences, University of Hawaii	5/2008

LICENSURE:

California Medical License, Number A78402	3/20/2002-present
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BOARD CERTIFICATION:

Diplomat, American Board of Psychiatry and Neurology	1/2006-present
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PRESENT EMPLOYMENT:

Physician Specialist and Medical Director for the Dementia/Neurobehavior Clinic Harbor-UCLA Medical Center, Torrance, CA	6/2012-present
Assistant Clinical Professor, Neurology Dept., UCLA, Los Angeles, CA	6/2012-present
Researcher, Los Angeles Biomedical Research Institute, Torrance, CA	9/2012-present

PROFESSIONAL EXPERIENCE:

Clinical Instructor in Neurology, University of California at Los Angeles	7/2004-6/2006
Assistant Professor: Neurology Division, Department of Medicine, John A. Burns School of Medicine, University of Hawaii	7/2006-5/2009
Physician Specialist: Ventura County Medical Center, Ventura, CA	7/1/2009-6/14/2012
Director, Brain Injury Clinic, Ventura County Medical Center, Ventura, CA	3/1/2011-6/14/2012

PROFESSIONAL ACTIVITIES:

Member, Committee on Human Studies, University of Hawaii	2007-2009
Member, Recruitment and Selection Committee, Internal Medicine Residency Program, University of Hawaii	2007-2009
Member, Special Events Committee, JABSOM, University of Hawaii	2007-2009
Elected Alternate to the University of Hawaii Manoa Faculty Senate	5/2008-9/2010
Member, VCMC Medicine Committee	7/1/2009-6/30/2011
Member, Board of Directors, Brain Injury Center of Ventura County	1/1/2010-6/1/2012
Chief, VCMC Medicine Committee	7/1/2011-6/14/2012

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Member, Human Subjects Committee, LA BioMed	1/2013-1/2015
Vice-Chair, Human Subjects Committee, LA BioMed	1/2015-3/2016
Chair, Research Committee, Neurology Department, Harbor-UCLA	1/2013-present
Director, Neurology Department Peer Review, Harbor-UCLA	7/2015-present
Member, Peer Review Oversight Committee, Harbor-UCLA	8/2015-present
Director, Quality Improvement Committee, Neurology Dept., Harbor-UCLA	7/2013-present
Member, Quality Council (formerly EPIC), Harbor-UCLA Medical Center	11/2012-present

TEACHING:

University of Hawaii:

Neurology Instructor, JABSOM, Medical Student PBL course. 2006-2009

Ventura County Medical Center, Neurology Department

Supervision and teaching of neurology residents on hospital wards and in general and subspecialty neurology clinics. 2009-2012

Harbor-UCLA Medical Center, Neurology Department

Supervision and teaching of neurology residents on hospital wards and in general and subspecialty neurology clinics. 2012-present

LECTURES AND PRESENTATIONS:

- 1) *Neuro-infectious Diseases*. Cedars Sinai Medical Center, Neurology Residency Program, Resident Lecture Series. Los Angeles, CA, June 3rd, 2016.
- 2) *Neurologic Complications of HIV Infection*. Cedars Sinai Medical Center, Neurology Residency Program, Resident Lecture Series. Los Angeles, CA, June 3rd, 2016.
- 3) *Development of Novel and Repurposed Therapeutics as Positive Allosteric Modulators of the Alpha-7-Nicotinic Acetylcholine Receptor*. West LA VA/UCLA, Neurobehavior Program Lecture Series. Los Angeles, CA, April 8th, 2016.
- 4) *Neurocognitive and Neuropsychiatric Disorders, Review for the RITE*. Harbor-UCLA Neurology Residency, Resident Rite Review Lecture Series. Torrance, CA, April 1st, 2016.
- 5) *Development of Novel and Repurposed Therapeutics as Alternatives to Monoclonal Antibody Treatments for Multiple Sclerosis*. Los Angeles BioMedical Research Institute, HIPO research lecture series. Torrance, CA, March 21st, 2016.
- 6) *Development of Structurally Novel Phenytoin Derivatives for Treatment of Refractory Epilepsy*. Los Angeles BioMedical Research Institute, HIPO research lecture series. Torrance, CA, December 11th, 2015.
- 7) *Dementia: Clinical Update and New Developments*. Harbor-UCLA Pathology Department Grand Rounds. Torrance, CA, November 6th, 2015.
- 8) *Dementia: Clinical Update and New Developments*. Harbor-UCLA Neurology Residency, Faculty Lecture series. Torrance, CA, September 25th, 2015.
- 9) *Neuro-infectious disease: Meningitis and Encephalitis*. Harbor-UCLA Neurology residency, Neurology Emergency lecture series. Torrance, CA, August 7th, 2015.
- 10) *Concussion Management*. Harbor-UCLA Neurology Department Grand Rounds. Torrance, CA, July 17th, 2015.
- 11) *Evaluation and Management of MCI and Dementia Syndromes in Athletes*. National Summit on Sports Concussion: Sports and Concussion Outcomes. Los Angeles, CA, June 5th, 2015.

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- 12) *Sports Concussion Management*. Los Robles Hospital and Medical Center, Trauma Education Lecture Series. Thousand Oaks, CA, February 13th, 2015.
- 13) *Association of Brain Gray Matter Changes and Hallucinations in Parkinson's Disease*. West LA VA/UCLA Neurobehavior Fellowship Program, Neurobehavior Lecture Series. Los Angeles, CA, February 6th, 2015.
- 14) *Dementia: Update and New Developments*. Harbor-UCLA Neurology residency, Faculty Lecture series. Torrance, CA, August 22nd, 2014.
- 15) *Neuro-infectious disease: Meningitis and Encephalitis*. Harbor-UCLA Neurology residency, Neurology Emergency lecture series. Torrance, CA, August 15th, 2014.
- 16) *Association of reduced brain volume in the frontal opercular gyri with development of visual hallucinations in Parkinson's disease*. Los Angeles BioMedical Research Institute, HIPO research lecture series. Torrance, CA, July 23rd, 2014.
- 17) *Alzheimer's Disease: Treatment Update and Tau*. Neurosearch Community Lecture Series, Pasadena, CA, July 1st, 2014.
- 18) *Dementia, part 2*. Harbor-UCLA Neurology residency lecture series. Torrance, CA, April 18th, 2014.
- 19) *Alzheimer's Disease: a clinical update*. LA BioMed Lunch and Learn Community Lecture Series, Torrance, CA, March 27th, 2014.
- 20) *Memory Loss, Alzheimer's Disease and Other Dementias*. LA BioMed Lunch and Learn Community Lecture Series, Torrance, CA, January 30th, 2014.
- 21) *Dementia, part 1*. Harbor-UCLA Neurology residency lecture series. Torrance, CA, January 17th, 2014.
- 22) *Brain: an overview of memory loss, dementia, Alzheimer's disease, and Parkinson's disease*. Ventura County Senior Summit, Ventura County Board of Supervisors and Ventura County Healthcare Agency. Camarillo, CA, November 2nd, 2013.
- 23) *The Sensory System and its clinical examination*. Harbor-UCLA Neurology residency lecture series. Torrance, CA, October 4th, 2013.
- 24) *Neuro-infectious disease: Meningitis and Encephalitis*. Harbor-UCLA Neurology residency emergency case series. Torrance, CA, August 9th, 2013.
- 25) *Economic Benefits of Community Based Dementia Screening*. UCLA Alzheimer's Disease Research Forum, Los Angeles CA, February 25th, 2013.
- 26) *Economic Benefits of Community Based Dementia Screening*. Harbor-UCLA Grand Rounds, Torrance CA, February 22nd, 2013.
- 27) *Economic Benefits of Community Based Dementia Screening*. LA BioMed Research Meeting, Torrance CA, February 6th, 2013.
- 28) *Dementia: Case Presentation and Update*. Family Medicine Department Grand Rounds, Harbor-UCLA Medical Center, Torrance CA, January 2nd, 2013.
- 29) *Memory Loss – When is it Alzheimer's Disease*. Ventura County Senior Summit, Ventura County Board of Supervisors and Ventura County Healthcare Agency, Camarillo CA, April 21st, 2012.
- 30) *Chronic Pain*. Harbor-UCLA Grand Rounds, Torrance CA, March 30th, 2012.
- 31) *How to Partner with Caregivers*. Third Annual Ventura County Brain Injury Center Conference, Camarillo CA, March 24th, 2012.
- 32) *Assembling the Team: Case Studies*. Third Annual Ventura County Brain Injury Center Conference, Camarillo CA, March 24th, 2012.
- 33) *Dementia: From Tea to Nuts*. Neurologic Dilemmas for the Non-Neurologist, Ventura County Medical Center, Ventura CA, February 26th, 2011.
- 34) *Alzheimer's Disease: a Clinical Update*. Ventura County Medical Center, HSNB, Ventura CA, July 15th, 2010.
- 35) *Alzheimer's Disease and Parkinson's Disease Overview*. Camarillo Health Care District, Camarillo CA, July 15th, 2010.

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- 36) *Dementia Overview*. Camarillo Health Care District, Camarillo CA, June 10th, 2010.
- 37) *Vascular Dementia: a Clinical Update*. Ventura County Medical Center, Department of Medicine Grand Rounds, Ventura CA, February 11, 2010.
- 38) *Depression in Elderly Japanese American Men: Findings from the Honolulu-Asia Aging Study*. Ahmed I. McMurtray A, Petrovitch H, Ross W, White L. *Orthostatic Hypotension Predicts Eight-Year Incident Depressive Symptoms*. McMurtray A. American Association for Geriatric Psychiatry (AAGP) Annual Meeting, Honolulu HI, 3/7/2009.
- 39) *Behavioral Neurology Overview*. The Department of Geriatric Psychiatry Grand Rounds, Honolulu HI, 2/6/2008.
- 40) *Vascular Dementia*. Department of Geriatrics Grand Rounds. John A. Burns School of Medicine, University of Hawaii, Honolulu HI, 10/23/2008.
- 41) *Alzheimer's Disease: Current concepts and future directions*. Department of Medicine Grand Rounds. John A. Burns School of Medicine, University of Hawaii, Honolulu HI, 11/2007.
- 42) *Small Vessel Vascular Disease in HIV infection: An update from the Honolulu Aging with HIV Cohort Study*. University of Southern California, Keck School of Medicine, Department of Neurology Grand Rounds, Los Angeles CA, 10/2/2007.
- 43) *Diagnosing Dementia in Younger People: Clinical and Neuropsychiatric Differences*. The 9th Argentinian Congress of Neuropsychiatry, Buenos Aires Argentina, 9/2007.
- 44) *Cortical Localization of Presenting Neuropsychiatric Symptoms in Frontotemporal Dementia*. The 9th Argentinian Congress of Neuropsychiatry, Buenos Aires Argentina, 9/2007.
- 45) *Ask the Specialist: Dementia and Alzheimer's Disease*, KHON/FOX Morning News, Honolulu HI. 7/16/2007.
- 46) *Understanding Vascular Cognitive Impairment and Vascular Dementia*. The Queen's Medical Center, General Medicine Grand Rounds, Honolulu HI. 7/6/2007.
- 47) *Traumatic Brain Injury: Long Term Cognitive Outcomes*. Harbor-UCLA Neurology Grand Rounds, Torrance CA. 10/13/2006.

RESEARCH PAPERS

RESEARCH PAPERS (PEER REVIEWED)

A. RESEARCH PAPERS – PEER REVIEWED

1. Mendez MF, **McMurtray AM**, Chen AK, Shapira JS, Chow TW, Mishkin F, Miller BL. Functional Neuroimaging and Presenting Psychiatric Features in Frontotemporal Dementia. *Journal of Neurology, Neurosurgery, and Psychiatry*, 2006;77:4-7. **PMID: 16043457**
2. **McMurtray AM**, Clark DG, Christine D, Mendez MF. Early Onset Dementia: Frequencies and Causes Compared to Late Onset Dementia. *Dementia and Geriatric Cognitive Disorders*, 2006;21:59-64. **PMID: 16276111**
3. **McMurtray AM**, Chen AK, Shapira JS, Chow TW, Mishkin F, Miller BL, Mendez MF. Variations in Regional SPECT Hypoperfusion and Clinical Features in Frontotemporal Dementia. *Neurology*, 2006;66:517-22. **PMID: 16505304**
4. **McMurtray AM**, Ringman J, Chao S, Licht E, Saul RE, Mendez MF. Family History of Dementia in Early Onset vs. Very Late Onset Alzheimer's Disease. *International Journal of Geriatric Psychiatry*, 2006;21:597-598. **PMID: 16783800**
5. Pascual BF, McCall CL, **McMurtray A**, Payton T, Smith F, Bisgard KM. Outbreak of Pertussis Among Healthcare Workers in a Hospital Surgical Unit. *Infect Control Hosp Epidemiology*, 2006;27:546-52. **PMID: 16755472**
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7. **McMurtray AM**, Clark DG, Flood MK, Perlman S, Mendez MF. Depressive and Memory Symptoms as Presenting Features of Spinocerebellar Ataxia. *Journal of Neuropsychiatry and Clinical Neurosciences*, 2006;18:420-422. **PMID: 16963595**
8. Mendez MF, **McMurtray A**, Licht E, Shapira JS, Saul RE, Miller BL. The scale for emotional blunting in patients with frontotemporal dementia. *Neurocase*, 2006;12:242-6. **PMID: 17000595**
9. Mendez MF, Shapira JS, **McMurtray A**, Licht E. Preliminary findings: Behavioral Worsening on Donepezil in Patients with Frontotemporal Dementia. *Am J Geriatr Psychiatry*, 2007;15:84-7. **PMID: 17194818**
10. Mendez MF, Shapira JS, **McMurtray A**, Licht E, Miller BL. Accuracy of the clinical evaluation for frontotemporal dementia. *Arch Neurol*, 2007;64:830-5. **PMID: 17562930**
11. Licht E, **McMurtray AM**, Saul R, Mendez MF. Cognitive Differences between Early and Late Onset Alzheimer's Disease. *American Journal of Alzheimer's Disease and Other Dementias*, 2007;22:218-222. **PMID: 17606531**
12. **McMurtray AM**, Nakamoto B, Shikuma C, Valcour V. Small Vessel Vascular Disease in HIV Infection: The Hawaii Aging with HIV Cohort Study. *Cerebrovascular Diseases*, 2007;24:236-241. **PMID: 17630484**
13. **McMurtray AM**, Liao A, Haider J, Licht E, Mendez MF. Cognitive Performance after Lacunar Stroke Correlates with Leukoaraiosis Severity. *Cerebrovascular Diseases*, 2007;24:271-276. **PMID: 17646691**
14. **McMurtray AM**, Licht E, Yeo T, Kristal E, Saul RE, Mendez MF. Positron Emission Tomography Facilitates the Diagnosis of Early-Onset Alzheimer's Disease. *European Neurology*, 2007;59:31-37. **PMID: 17917455**
15. **McMurtray AM**, Sultzer DL, Monserratt L, Yeo T, Mendez MF. Content Specific Delusions from Right Caudate Lacunar Stroke: Association with Prefrontal Hypometabolism. *Journal of Neuropsychiatry and Clinical Neurosciences*, 2008;201:62-67. **PMID: 18305285**
16. **McMurtray AM**, Nakamoto B, Shikuma C, Valcour V. Cortical Atrophy and White Matter Hyperintensities in HIV: The Hawaii Aging with HIV Cohort Study. *The Journal of Stroke and Cerebrovascular Diseases*, 2008;17:212-217. **PMID: 18589342**
17. Saito E, Licht E, **McMurtray AM**, Mendez MF. Age of Onset Related Differences in Clinical and Neuropsychological Features of Alzheimer's Disease. *Alzheimer's Disease Research Journal*, 2008;4(1):279-288.
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19. Mendez MF, **McMurtray AM**, Licht E, Saul RE. Frontal-Executive versus Posterior-Perceptual Mental Status Deficits in Early-Onset Dementias. *Am J Alzheimers Dis Other Dement*, 2009;24(3):220-227. **PMID: 19329784**
20. **McMurtray AM**, Saito E, Nakamoto B. Language preference and development of dementia among bilingual individuals. *Hawaii Medical Journal*, 2009;68(9):223-226. **PMID: 19842364**
21. Ashla PM, **McMurtray AM**, Licht E, Mendez MF. Retrospective Posttraumatic Amnesia in Traumatic Brain Injury. *J Neuropsychiatry Clin Neurosci*, 2009;21(4):467-468. **PMID: 19996257**
22. Nakamoto BN, **McMurtray AM**, Davis J, Valcour V, Watters MR, Shiramizu B, Chow DC, Kallianpur K, Shikuma C. Incident neuropathy in HIV-infected patients on HAART. *AIDS Research and Human Retroviruses*, 2010;26(7):759-65. **PMID: 20624077**
23. Nakamoto BK, Valcour VG, Kallianpur K, Liang CY, **McMurtray A**, Chow D, Kappenburg E, Shikuma CM. Impact of Cerebrovascular Disease on Cognitive Function in HIV-

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24. Nakamoto BK, Jahanshad N, **McMurtray A**, Kallianpur KJ, Chow DC, Valcour VG, Paul RH, Marotz L, Thompson PM, Shikuma CM. Cerebrovascular risk factors and brain microstructural abnormalities on diffusion tensor images in HIV-infected individuals. *J Neurovirol*, 2012;18(4) 303-12. **PMID: 22585287**
 25. Saito E, Leonard A, Nakamoto B, **McMurtray A**. Effects of Obesity and Gender on Chronic Pain Severity in a Community Based Cohort. *Journal of Obesity and Weight Loss Therapy*, 2012;2:126. doi:10.4172/2165-7904. 1000126.
 26. Tse GG, Masuda EM, **McMurtray AM**, Nakamoto B. Coiled internal carotid arteries associated with bilateral sequential strokes. *Case Reports in Vascular Medicine*, 2013, Article ID 929530, doi:10.1155/2013/929530. **PMID: 23762747**
 27. Nakamoto B, Siu AM, Hashiba KA, Sinclair BT, Baker BJ, Gerber MS, **McMurtray AM**, Pearce NM, Pearce JW. Surfer's Myelopathy: a Radiological study of 23 cases. *AJNR*, 2013; 34:2393-2398, doi: 10.3174/ajnr.A3599. **PMID: 23828111**
 28. Mehta BK, Mustafa G, **McMurtray A**, Masud MW, Gunukula SK, Kamal H, Kandel A, Beltagy A, Li P. Whole Brain CT Perfusion Deficits Using 320-Detector Row CT in TIA Patients are Associated with ABCD2 Score. *Int J Neurosci*, 2014 Jan;124(1):56-60.doi:10.3109/00207454.2013.821471. Epub 2013 Aug 12. **PMID: 23826759**
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 33. **McMurtray A**, Saito E. Does Primary Headache Type Influence Secondary Headache Symptoms? *Journal of Neuroscience in Rural Practice*, 2014;5(2):111-2. doi: 10.4103/0976-3147.131644. **PMID:24966543**
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 35. **McMurtray A**, Tseng B, Diaz N, Chung J, Mehta B, Saito E. Acute Psychosis Associated with Subcortical Stroke: Comparison between basal ganglia and mid-brain lesions. *Case Reports in Neurological Medicine*, 2014;2014:428425. Doi: 10.1155/2014/428425. **PMID:25309765.**
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39. Saito EK, Diaz N, Morrow J, Chung J, **McMurtray A**. Lower Frequency of co-Morbid Medical Disorders Related to Poor Impulse Control in Parkinson's than Alzheimer's Disease. *Curr Aging Sci*, 2016;9(1):57-60. **PMID: 26412353**
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41. Saito E, Nagpal M, Leon A, Mehta B, **McMurtray AM**. Topographical congruence of calcified parenchymal neurocysticercosis and other structural brain lesions with epileptiform activity. *Trop Parasitol*, 2016;6(1):51-5. doi: 10.4103/2229-5070.175093. **PMID: 26998434**

CHAPTERS

- 1) Mendez MF, **McMurtray A**. Delirium. In: *Neurology in Clinical Practice (NICP)*, Bradley WG (Ed). Philadelphia, PA: Elsevier.
- 2) Valcour V, **McMurtray A**. Interactions between Advanced Age and HIV Cognitive Impairment. In *HIV and the Brain: New challenges in the modern era*. Edited by: Sacktor N, Toshima K, Paul R, Valcour V. Totowa, New Jersey: Humana Press, Inc.
- 3) Mendez MF, **McMurtray AM**. Neurodegenerative Disorders. In: *Stress Consequences: Mental, Neuropsychological and socioeconomic*, Fink G (Ed). Oxford, UK: Elsevier Academic Press.

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- 1) **McMurtray AM**, Saito E, Perlman S. Neuropsychiatric and Cognitive Symptoms in Spinocerebellar Ataxia: Relationship to neuropathological differences. *Current Psychiatry Reviews*, 2008;4(3):157-161.

ABSTRACTS

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- 2) Sadava D, Heidel K, **McMurtray A**, Scanlon K. Neuron Specific Enolase and Thymidine Kinase: Markers for multiple drug resistance and its reversal in Human Small Cell Lung Cancer cells. *J Tumor Marker Oncol*, 1998;13(4):49-52.
- 3) **McMurtray AM**, Chen AK, Shapira JS, Chow TW, Mishkin F, Miller BL, Mendez MF. Frontal vs Temporal Frontotemporal Dementia: Functional Imaging and Neurobehavioral Symptoms. *Presented at the American Neurological Association 130th annual meeting in 2005*.
- 4) **McMurtray AM**, Saul R, Mendez MF. Clinical Utility of Positron Emission Tomography in Evaluation of Presenile Patients with Cognitive Impairments. *Presented at the American Neurological Association 130th annual meeting in 2005*.
- 5) **McMurtray AM**, Clark DG, Christine D, Mendez MF. Early Onset Dementia: Frequencies and Causes Compared to Late Onset Dementia. *Presented at the American Neurological Association 130th annual meeting in 2005*.
- 6) **McMurtray AM**, Licht E, Saul RE, Mendez MF. Frontal Lobe Metabolism in Strategic Caudate Stroke. *Presented at the American Society of Neuroimaging annual meeting in 2006*.
- 7) **McMurtray AM**, Licht E, Saul RE, Mendez MF. Presence of Leukoariosis Affects Cognitive Performance after Lacunar Stroke. *Presented at the American Neuropsychiatric Association*

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 - 10) Mendez MF, **McMurtray AM**, Licht E, Saul RE. The Social Dysfunction Scale in Patients with Frontotemporal Dementia. *Presented at the American Academy of Neurology annual meeting in 2006.*
 - 11) Licht E, **McMurtray AM**, Saul RE, Mendez MF. Early and Late Onset Alzheimer's Disease Differ in Presenting Clinical Characteristics. *Presented at the American Academy of Neurology annual meeting in 2006.*
 - 12) Mendez MF, **McMurtray AM**, Licht E, Saul RE. Patients with Possible Frontotemporal Dementia: Eventual Clinical Diagnoses after Longitudinal Follow-Up. *Presented at the American Academy of Neurology annual meeting in 2006.*
 - 13) Apostolova LG, Clark DG, Zoumalan C, Steiner CA, **McMurtray A**, Toga AW, Cummings JL, Mendez MF, Thompson PM. 3D mapping of gray matter atrophy in semantic dementia and frontal variant frontotemporal dementia. *Presented at the 10th International Conference on Alzheimer's Disease and Related Disorders in 2006.*
 - 14) **McMurtray AM**, Licht E, Saul RE, Mendez MF. Stroke in Early and Late Onset Alzheimer's Disease. *Presented at the UCLA Aging Research Conference in 2006.*
 - 15) **McMurtray AM**, Licht E, Saul RE, Mendez MF. Cortical Metabolism in Early Onset Alzheimer's Disease. *Presented at the UCLA Aging Research Conference in 2006.*
 - 16) **McMurtray AM**, Licht E, Saul RE, Mendez MF. Dementia Etiologies in the Very Elderly. *Presented at the UCLA Aging Research Conference in 2006.*
 - 17) **McMurtray AM**, Licht E, Saul RE, Mendez MF. Familial Aggregation in Early and Late Onset Alzheimer's Disease. *Presented at the UCLA Aging Research Conference in 2006.*
 - 18) **McMurtray AM**, Licht E, Saul RE, Mendez MF. Presence of Leukoariosis Affects Cognitive Performance after Lacunar Stroke. *Presented at the American Neurological Association 131th annual meeting in 2006.*
 - 19) **McMurtray AM**, Licht E, Saul RE, Mendez MF. Head Injury Severity Correlates with Cognitive Impairment in Recent but not Remote Traumatic Brain Injury. *Platform presentation at the Brain Injury Conference of the Americas annual meeting in 2006.*
 - 20) **McMurtray AM**, Licht E, Perlman S, Mendez MF. Cognitive performance correlates with score on the Scale for the Assessment and Rating of Ataxia in Spinocerebellar Ataxia 1,2,3 and 6. *Presented at the American Neuropsychiatric Association annual meeting in 2007.*
 - 21) **McMurtray AM**, Nakamoto B, Shikuma C, Valcour V. Age-related Small Vessel Vascular Disease in HIV Infection: The Hawaii Aging with HIV Cohort Study. *Presented at the Hawaii Biomedical Science Research Symposium in 2007.*
 - 22) **McMurtray A**, Nakamoto B, Shikuma C, Valcour V. Age related cortical atrophy in HIV infection. *Presented at the American Neuroimaging Society 31st annual meeting in January 2008.*
 - 23) **McMurtray A**, Chen D, Valcour V, Gerschenson M, Shikuma C. Mitochondrial Oxidative Stress and Painful Peripheral Neuropathy in HIV Infection. *Presented at the American Academy of Neurology annual meeting in April 2008.*
 - 24) **McMurtray A**, Petrovitch H, Ross GW, Masaki K, Uyehara-Lock J, White L. A strategy for identification of dementia risk factors based on associations with specific neuropathologic lesions: the HAAS autopsy study. *Presented at the International Conference on Alzheimer's Disease (ICAD) in July 2008. Alzheimer's and Dementia, 2008;4:T694-T695.*

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- 26) **McMurtray AM**, Kallianpur K, Valcour V, Shikuma C. Frequency of Apolipoprotein E4 allele in the Hawaii Aging with HIV Cohort Study Participants. *Presented at the Research Centers in Minority Institutions (RCMI) conference in December 2008.*
- 27) **McMurtray AM**, Valcour V, Shikuma C. Changes in Cerebral Glucose Metabolism Associated with the Presence of the Apolipoprotein E4 Allele in Older HIV Seropositive Individuals. *Presented at the Research Centers in Minority Institutions (RCMI) conference in December 2008.*
- 28) Kallianpur K, **McMurtray AM**, Valcour V, Shiramizu B, Shikuma C. Reduced Region-Specific Corpus Callosum Volumes Correlate with Low Nadir CD4 and Decreased Cognition in HIV-Infected Carriers of the ApoE4 Allele. *Presented at the Conference on Retroviruses and Opportunistic Infections (CROI) in February 2009.*
- 29) **McMurtray AM**. Age and Insulin Resistance are Associated with Periventricular White Matter Hyperintensities in older HIV Seropositive Individuals. *Presented at the American Neuroimaging Society annual meeting in January 2010.*
- 30) **McMurtray AM**, Diaz N, Mehta B. Utility of ^{99m}Tc HMPAO SPECT in Dementia Diagnostic Dilemmas: A Case Series Report. *Presented at the American Neuroimaging Society annual meeting in January 2013.*
- 31) Diaz N, **McMurtray A**. Adverse Events with Implantable Deep Brain Stimulators – Trends and Insight from FDA Maude Database, 2001-2007. *Presented at the American Academy of Neurology annual meeting in March 2013.*
- 32) **McMurtray AM**, Saito E, Leon A, Rai K, Morrow J, Diaz N, Mehta B, Naylor D. Neuroimaging Detected Neurocysticercosis and Neuropsychiatric Symptoms in Refractory Epilepsy. *Presented at the American Neuroimaging Society annual meeting in January 2014.*
- 33) Wang C, Mehta B, **McMurtray AM**. Occupational Exposure and Risk of Stroke: A Population-based Study in the United States Adult Population. *Presented at the International Stroke Conference in February 2014.*
- 34) Mowla A, Kamal H, Shirani P, Sawyer R Jr, Ching M, **McMurtray A**, Smith K, Li P, Farooq S, Singh K, AbdelRazek M, Mehla S, Crumlish AM, Mehta B. Clinical and Laboratory Factors predisposing to hemorrhagic conversion of ischemic stroke after thrombolysis. *Presented at the American Academy of Neurology 67th annual meeting in April 2015.*
- 35) Mowla A, Kamal H, Lail N, Cheema B, Mehta B, Memon A, Shirani P, Deline C, **McMurtray A**, Ching M, Sawyer R. Does the Presence of Pretreatment Hyperdense Middle Cerebral Artery Sign Predict the Outcomes of Intraarterial Thrombectomy Plus Intravenous tPA for Acute Stroke? *Accepted for presentation at the American Academy of Neurology 68th annual meeting in April 2016.*

PATENTS

1. LAB0164 "Structurally novel Phenytoin derivatives with enhanced binding to neuronal voltage gated sodium channels" Provisional patent application No. 62/298,322, filed on 2/22/2016.

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CLINICAL TRIALS EXPERIENCE

Aids Clinical Trials Group (ACTG)

Investigator, Neurology Collaborative Science Group (Neuro CSG)

2015-present

Member, A5324 Leadership Team

2012-present

1. **Title:** Integrase and Maraviroc Intensification in Neurocognitive Dysfunction (InMIND).
Protocol: ACTG 5324.
Sponsor: ACTG
Goal: Assess if intensification improves neurocognitive function in subjects with neurocognitive impairment and undetectable HIV RNA on stable ART.

Neurology Department, LA BioMed and Harbor-UCLA Medical Center

Co-Investigator, (PI: Metha, B)

2016-present

1. **Title:** An Open-Label Study to Evaluate the Effectiveness and Safety of Ocrelizumab in Patients with Relapsing Remitting Multiple Sclerosis who have had a Suboptimal Response to an Adequate Course of Disease-Modifying Treatment.
Protocol: MN30035.
Sponsor: Genentech, Inc.
Goal: The primary objective of this study is to assess the effectiveness of ocrelizumab 600 mg intravenously (IV) every 24 weeks over 96 weeks in patients with relapsing remitting multiple sclerosis (RRMS) who have had a suboptimal response to an adequate course of a disease-modifying treatment (DMT).

Primary Investigator, Neurosearch-Torrance/Harbor-UCLA/LA BioMed, Torrance, CA 2013-2016

1. **Title:** A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Dose-Response Trial of YKP3089 as Adjunctive Therapy in Subjects with Partial Onset Seizures, with Optional Open-Label Extension.
Protocol: YKP3089C017
Sponsor: SK Life Sciences
Phase: 3
Product: YKP3089 (Small Molecule)

Co-Investigator, Neurosearch-Torrance/Harbor-UCLA/LA BioMed, Torrance, CA 2013-2016

1. **Title:** A multicenter, randomized, double-blind, parallel-group, placebo-controlled variable treatment duration study evaluating the efficacy and safety of Siponimod (BAF312) in patients with secondary progressive multiple sclerosis.
Protocol: CBAF312A2304
Sponsor: Novartis Pharmaceuticals
Phase: 3
Product: Siponimod (BAF312)
2. **Title:** A phase 3, 12-week, double blind, placebo-controlled, randomized, multicenter study to evaluate the efficacy of oral istradefylline 20 and 40 mg/day as treatment for subjects with moderate to severe Parkinson's disease.

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Protocol: Kyowa 6002-014
Sponsor: Kyowa Hakko Kirin Pharma, Inc.
Phase: 3
Product: Istradefylline

Co-Investigator, Neurosearch II Inc., Ventura, CA

2011-2012

- 1) **Title:** An Open-Label, Multicenter, Multinational Study of Lacosamide as First Add-On Antiepileptic Drug (AED) Treatment in Subjects with Partial-Onset Seizures.
Protocol: SP954
Sponsor: UCB
Phase: 4
Product: Lacosamide
- 2) **Title:** A Randomized, Multicenter, Double-Blind, Placebo-Controlled, Parallel-Group, Phase 3 Study to Evaluate the Efficacy and Safety of USL255 as Adjunctive Therapy in Patients with Refractory Partial-Onset Seizures.
Protocol: P09-004
Sponsor: Upsher-Smith Laboratories, Inc.
Phase: 3
Product: USL255/Placebo
- 3) **Title:** Open-Label Extension Study to Evaluate the Safety of USL255 as Adjunctive Therapy in Patients with Refractory Partial-Onset Seizures who had participated in P09-004, a Randomized, Multicenter, Double-Blind, Placebo-Controlled, Parallel-Group, Phase 3 study.
Protocol: P09-005
Sponsor: Upsher-Smith Laboratories, Inc.
Phase: 3
Product: USL255
- 4) **Title:** Double-Blind, Randomized, Historical Control Study of the Safety and Efficacy of Eslicarbazepine Acetate Monotherapy in Subjects with Partial Epilepsy Not Well Controlled by Current Antiepileptic Drugs.
Protocol: 093-046
Sponsor: Sunovion Pharmaceuticals, Inc.
Phase: 3
Product: Eslicarbazepine Acetate
- 5) **Title:** Efficacy and safety of Eslicarbazepine Acetate (BIA 2-093) as adjunctive therapy for refractory partial seizures in a double-blind, randomized, placebo-controlled, parallel-group, multicentre clinical trial.
Protocol: BIA-2093-304
Sponsor: Sunovion Pharmaceuticals, Inc.
Phase: 3
Product: Eslicarbazepine Acetate

Dr. Rhonna Shatz

RHONNA SHATZ, D.O.

CURRICULUM VITAE

SPECIALTY CERTIFICATIONS

Neurology
Behavioral Neurology

PROFESSIONAL INFORMATION: - Present Positions

Sandy and Bob Heimann Chair in Research and Education of Alzheimer's Disease
Director, Memory Disorders Clinic
Department of Neurology and Rehabilitation
University of Cincinnati
260 Stetson St, Suite 2300
Cincinnati, Ohio 45219-0525
Associate Professor
12-1-2014 to present

Behavioral Neurology Fellowship Director
Department of Neurology and Rehabilitation
University of Cincinnati
260 Stetson St, Suite 2300
Cincinnati, Ohio 45219-0525
6-1-2015 to present

Director of Behavioral Neurology
Clayton Alandt Chair of Behavioral Neurology
Department of Neurology, K-11
Henry Ford Hospital
2799 West Grand Boulevard
Detroit, MI 48202
248-325-3089
10-1-1987 to 8-31-2014

Behavioral Neurology Fellowship Director
Henry Ford Hospital
Department of Neurology, K-11
2799 West Grand Boulevard
Detroit, MI 48202
2012 to 2014

Associate Professor Wayne State University
School of Medicine
Wayne State University
Detroit, Michigan
2003 to 2014

National Board of Osteopathic Medical Examiners
Expert faculty—Neurology/Behavioral Neurology
2008 to 2015

Joint Appointment
Staff Investigator
Henry Ford Health System
Resource Center for Minority
Aging Research
1998

Adjunct Associate Professor
University of Windsor
Department of Psychology
Windsor, Ontario, Canada
1991 to 1994

LICENSURE:

State of Ohio: 34.011582
Original Date: November, 2014

State of Michigan: 008450
Original Date: December 9, 1986

DEA NUMBER:

BS0800234

Board Certifications:

Neurology: 10/30/90 (number 33618)
Behavioral Neurology 11/30/12 (number BNNP00506-12)

EDUCATION:

Fellowship-

10-01-86 – 09-30-87

Behavioral Neurology, Henry Ford Hospital
Department of Neurology, Division of Neuropsychology
Detroit, Michigan 48202
Gregory Brown, Ph.D.

joint with:

St. Joseph Hospital,
268 Grosvenor St.
London Ontario, Canada ON N6A 4V2
Andrew Kertesz. M.D.

Chief Resident: Henry Ford Hospital, Department of Neurology
Neurology K-11, 2799 W. Grand Boulevard, Detroit, MI 48202
01/01/86 to 09-30-86 Chairman: Kenneth Welch, M.D.
Director of Residency: Stanton Elias, M.D.

Residency: Henry Ford Hospital, Department of Neurology, K-11
Neurology Chairman, Kenneth Welch, M.D.
10/01/83 to 09/30/86 Director of Residency: Stanton Elias, M.D.

Internship: Botsford General Hospital
Flexible 28050 Grand River
Farmington Hills, Michigan 48336
09/13/82 to 09/12/83 Director of Medical Education: J. Powell, D.O.

Medical School: Michigan State University
06/15/78 to 09/03/82 College of Osteopathic Medicine
East Lansing, Michigan 48823
Dean: Myron Magen, D.O.

Undergraduate College: Audiology and Speech Pathology/Honors College
09/73 to 06/78 Michigan State University
East Lansing, Michigan 48823

Languages Spoken: English, Spanish

Committees/Service: University of Cincinnati/Maple Knoll Affiliation Board
Technological Innovations in Healthcare Committee
2015-present

Alzheimer's Disease and Associated Dementia Journal
Manuscript review: 5/year average
2016-present

Alzheimer's Association Greater Cincinnati Chapter
Memory Walk Supporter 2015, 2016
Caregiver Lecture Series presenter 2015-present

Tender Mercies
Memory Disorders Clinic Group
Provided dinner for about 70 residents
November, 2015

Physician Effectiveness Committee of the Board of
Governors
Advisor for creating policy for cognitively compromised
practitioners
Henry Ford Hospital 2010 to 2011

Adat Shalom Physician's Journey Group, Co-Chair 2006-9
Jewish and Ecumenical Medical Ethics Studies
Monthly meeting and case reviews

Co-Chair Health Services Subcommittee
State of Michigan Dementia Plan 2002-2004

Project Chesed
(pro bono consultations for low income patients)
Jewish Family Service of Michigan
Participant
2004 to 2010

National Board of Osteopathic Medical Examiners
Exam writer 2003 to 2016
Behavioral Neurology Specialist 2012 to 2016

Michigan Dementia Coalition
Physician Leaders Network
Advocacy Action Committee 2001 to 2014

Chairperson Board of Directors
Alzheimer's Association
Greater Michigan Chapter 2002-2003, (Detroit Chapter)
2001-2002
2000-2001

Member, Board of Directors
Alzheimer's Association
Greater Michigan Chapter 2002-2015

Member, Medical and Scientific Advisory Council
Alzheimer's Association
Greater Michigan Chapter 2002-2015

Strategic Realignment Committee for the National
Alzheimer's Association
Michigan Chapters
2000-2001

Vice President of Alzheimer Association Board of
Directors
Detroit Chapter
1999 –2000

Chairperson
Medical and Scientific Advisory Council
Alzheimer's Association-Detroit Chapter
1996 - 2000

Vice President
 Medical and Scientific Advisory Council
 Alzheimer's Association-Detroit Chapter
 1994 to 1996

Chairperson Search Committee
 Audiology & Speech Pathology Chairman
 1990

Research and Grants:

Axovant RVT-101-2001 Study in Dementia with Lewy Bodies 2017-2019
 Sponsor: Axovant

Imaging Dementia—Evidence for Amyloid Scanning (IDEAS) 2016-2018
 Sponsor: Alzheimer's Association and the American College of Radiology

Sponsor: Avid 2016-2018
 A Clinico-Pathological Study of the Correspondence Between ¹⁸F-AV-1451 PET Imaging and Post-Mortem Assessment of Tau Pathology

Sponsor: Picker Foundation 2011-2012
 Always Events Challenge Grant Project
 Dementia Screening for Senior Patients
 \$50,000 with matching funds from other donors

Sponsor: Janssen and Janssen 2008-2014
 A Phase 3 Extension, Multicenter, Double-Blind, Long Term Safety and Tolerability Treatment Trial of Bapineuzumab (AAB-001, ELN115727) in Subjects with Alzheimer's Disease Who Participated in Study ELN115727-301 or in Study ELN115727-302)
 A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Efficacy and Safety Trial of Bapineuzumab (AAB-001, ELN115727) in Patients with Mild to Moderate Alzheimer's Disease Who are Apolipoprotein E4 Carriers
 A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Efficacy and Safety Trial of Bapineuzumab (AAB-001, ELN115727) in Patients with Mild to Moderate Alzheimer's Disease Who are Apolipoprotein E4 Non-Carriers

Sponsor: NIH
 Role: PI-Investigator RO1 AG20688-01 (Fallin, Daniele) 2003-2008
 NIH—Genetic Risk Factors for AD among African-Americans
 40% effort
 \$381,301

Sponsor: Novartis 2001- 2002
 A Prospective, Six-month Open-label Multi-center Study Evaluating the Safety and Tolerability of Exelon (rivastigmine tartrate) 3 to 12mg/day Administered Following a Slow Rate of Titration in Patients with Mild to Moderately Severe Alzheimer's disease

Sponsor: Novartis A Prospective, 26-Week, Open-label, Single-arm, Multi-center Study Evaluating the Efficacy and Safety of Exelon (rivastigmine tartrate) 3-12 mg/day in Patients with Mild to Moderate Alzheimer's Disease Who are Responding Poorly to Aricept (donepezil) Treatment	2003-2004
Sponsor: Geriatric Education Center of Michigan Initiative to Improve Dementia Care in Michigan Supplemental Project Grant 5% effort Consortium Member \$5,000	2004-2005
HAP-HRSA Managed Care Demonstration Study Administration on Aging CoPI	2000-2004
A Prospective, Six-month Open-label Multi-center Study Evaluating the Safety and Tolerability of Exelon (rivastigmine tartrate) 3 to 12mg/day Administered Following a Slow Rate of Titration in Patients with Mild to Moderately Severe Alzheimer's Disease Clinical Site Investigator	2001-2002
National Alzheimer's Association CD-ROM for Physicians on the Diagnosis and Treatment of Alzheimer's disease \$9000.00	2000
Clinical Evaluation of Alzheimer's disease Marilyn Nichol Fund \$10,000	1995-2000
Metrifonate Investigation Nationwide Trial (MINT) Clinical Site Investigator	1998
Grant # Ro1 AG 10677-01 National Institute on Aging Co-Investigator, Spectroscopy of Alzheimer's Disease with Vascular Dementia	1994-1998
Phase II Randomized Double Blind Placebo controlled Study of the Safety And Efficacy of 3 Doses of CP-118, 954 Administered for 12 weeks to Subjects with Alzheimer's disease. Clinical Site Investigator	1995-1996

Phase III Randomized Double-Blind
 Placebo Controlled Study of the Safety
 And Efficacy of Tacrine
 Administered to Subjects with Alzheimer's disease
 Tacrine Study Group
 Clinical Site Investigator 1992-1993

Publication, Presentations, and Abstracts:

O'Reilly J and Shatz R. Dementia & Alzheimer's: Legal competence & Medico-legal consequences. American Bar Association Press (in press)

Molano JR, Bratt R, Shatz R. Treatment and Management of Dementia Due to Alzheimer's Disease. Curr Treat Options Neurol. 2015 Aug;17(8):363

Shatz R, Novikova, M, Lemere W, Etters L. Paraneoplastic antibodies in dementia patients with presenting with executive dysfunction. Poster presented at the American Academy of Neurology Annual Meeting April 29, 2014

Shatz R, Lemere W, Williams K, Daley S. NIH Toolbox Screen for MCI and Dementia: Results of a 90-Day Pilot in Primary Care Practices. Poster presented at the American Academy of Neurology Annual Meeting March 21, 2013.

Shatz, Rhonna. Dementia Seen by a Neurologist in Broken Fragments: Jewish Experiences of Alzheimer's Disease through Diagnosis, Adaptation, and Moving On. Kohn Douglas ed. URJ Press, 2012

Genetic Variants at Multiple Loci Influence Alzheimer Disease Risk in African Americans. Mark W. Logue, Ph.D.^{1,6}, Matthew Schu, M.S.¹, Badri N. Vardarajan, M.S.¹, JackiBuros, B.A.¹, Robert C. Green, M.D., M.P.H.^{1,2,5}, Rodney C. P. Go, Ph.D. Patrick Griffith, M.D.⁹, Abimbola Akomolafe, M.D., M.P.H.⁹, Thomas O. Obisesan, M.D.¹⁰, Rhonna Shatz, DO.¹¹, Amy Borenstein, Ph.D.¹², L. Adrienne Cupples, Ph.D.⁶, Kathryn L. Lunetta, Ph.D.⁶, M. Daniele Fallin, Ph.D.¹³, Clinton T. Baldwin, Ph.D.^{1,7} and Lindsay A. Farrer, Ph.D.^{1-6,*} for the MIRAGE Study Group† Arch. Neurol. 2011 Dec;68(12):1569-79

Effects of Vagus nerve Stimulation on Progressive Myoclonic Epilepsy of Unverricht-Lundborg Type;
 Smith B, Shatz R, Elisevich K, Bepalova I, Burmeister M.
 Epilepsia 41(8): 1046-1048, 2000

Amusement Park Stroke; Neurology
 Burneo J. Shatz R, Papamitsakis N, Mitsias P.:
 Neurology 55:564, 2000

Chapter: Behavioral Neurology
 In Medical Speech Pathology
 Johnson A, Jacobson B: eds. Thieme 1998

Presentation: Cerebral Venous Thrombosis vs. Late Postpartum Eclampsia Associated with Decreased Protein S. Level;
American College of Physicians
September 19-22, 1996

A Controlled Trial of Tacrine in Alzheimer's disease
M. Farlow, et al
Tacrine Study Group
JAMA, 11/11/92 – Vol 268

Published Abstract: Auditory Processing in Wernicke's Aphasia;
Poster presented at International Neuropsychological Society
Barcelona, Spain
July 1987

Awards:

America's Most Honored Professionals
2016, 2017

Castle Connolly Best Doctors
2015, 2016, 2017

Cincy Best Doctors Award
2015, 2016, 2017

Visionary Award
Greater Michigan Chapter of the Alzheimer's Association
November 1, 2014

Maverick Award
Greater Michigan Chapter of the Alzheimer's Association
October, 2012

Hour Detroit Monthly Magazine
"Top Doc" Award for Alzheimer's Disease, Neurology
October 2000- 2015

Best Doctors in America
2005-2016

Leadership Award Alzheimer's Association
Detroit Chapter
May 2, 2001

Volunteer Award
Alzheimer's Association
Detroit Chapter
May 2, 2001

Alois Alzheimer's Award
Alzheimer's Association
1999

Henry Ford Hospital Outstanding Physician Award
1998

Henry Ford Hospital Medical Students and Residents
Award for Excellence in Teaching
1992, 1994, 1998, 2007, 2009

"Coveted Head's Award" for Teaching Excellence
University of Windsor
1991 - 1993

Teaching:

Behavioral Neurology Residency Core Didactics
University of Maryland Residency Program
March 6-10, 2017

Mind and Behavior Course participant
University of Cincinnati Medical School
Cognitive networks
Dementia Evaluation
Dementia Treatment
2015, 2016, 2017

Pediatric Neurology
Language and Progressive aphasia
2016

Physical Medicine and Rehabilitation
Dementia evaluation
June 16, 2016

Neurology Residents
Pharmacology of dementia
June 9, 2016

**Coordinator of the Combined Cognitive-Movement
Conference**
University of Cincinnati, Dept. of Neurology and
Rehabilitation
2014-present

Behavioral Neurology Course
Henry Ford Hospital
Fall 1992 –1994, 1996-2014

Dementia

University of Detroit, Physician's Assistant Program
1998

Neuroanatomy – Henry Ford Hospital

Fall 1993 –1995

**University of Windsor, Department of Neuropsychology,
Neuroanatomy and Neurophysiology Course**

Fall 1990

Winter 1991

Fall 1992

Winter 1993

Recent Invited Lectures:

“Noing” Aphasia: Primary Progressive Aphasia
Grand Rounds Invited Lecturer
Baltimore, Maryland
March 8, 2017

Cognitive Networks in Neurological Disease
International Conference on Neurocritical Care
Quito, Ecuador
November 21, 2016

Update on Dementia: The Right Diagnosis
International Conference on Neurocritical Care
Quito, Ecuador
November 22, 2016

A Dignified Diagnosis
Alzheimer's Symposium
Greater Cincinnati Chapter of the Alzheimer's Association
Professional Symposium
Sharonville, Ohio
November 4, 2016

Sleep and Cognition in Cancer
Barrett Cancer Center Annual Symposium
University of Cincinnati
Cincinnati, Ohio
September 23, 2016

Interior Redesign: Brain Health in Parkinson's Disease
Sunflower Symposium
University of Cincinnati
August 9, 2016

Cancer and Memory
Barrett Cancer Center Annual Symposium
University of Cincinnati

Cincinnati, Ohio
September 11, 2015

Invited Lecture: Update on Alzheimer's Research
Winter Conference on Brain Research
Big Sky, Montana
July 27th, 2015

The Art of Maintaining the Brain (And diagnosing when it is broken"
Practical Pathways Through Dementia
Greater Cincinnati Chapter of the Alzheimer's Association
Professional Symposium
November 7, 2014

Spectrum of Lewy body diseases: From Parkinson's to Dementia
University of Cincinnati Movement Disorders Workshop
Cincinnati, Ohio
October 17, 2014

Keynote Lecture: Navigating the Cognitive Internet: What are networks and why they are important
Spectrum Health Third Annual Neuroscience Symposium
Spectrum Health System
Grand Rapids, Michigan
June 6, 2014

Grand Rounds: Alzheimer's at the End of Life
Palliative Care
Henry Ford Health System
June 3, 2014

Grand Rounds: Networks and Why They are Important
Michigan State University Dept. of Neurology
East Lansing, Michigan
May 28, 2014

Profiling MCI
Michigan State Medical Society Spring Meeting
The Henry, Detroit, Michigan
May 15, 2014

Speaking in tongues: Primary Progressive Aphasia
Michigan State Medical Society Fall Meeting
Somerset Inn, Troy, Michigan
October 24, 2013

Dementia Screening for the Medical Home

National Medical Home Summit and Population Health
Colloquium
March 14, 2013

Screening for Dementia in Primary Care Pilot Always Event
Institute for Healthcare Innovation
Orlando, Florida
December 10-12, 2012

NIH Toolbox for Diagnosing Dementia
NIH Toolbox Conference
NIH, Bethesda, Maryland
September 10, 2012

Update on Lewy Body Dementia
Issues in Aging Conference
Wayne State University/Dearborn Inn
Monday, May 14, 2012

Normal Pressure Hydrocephalus: A Syndrome
Henry Ford Hospital Neurology/Neurosurgery Grand Rounds
Henry Ford Hospital, Detroit
November 16, 2011

Lost in Oz: How to detect "Ozheimer's"
Primary Care Update
Henry Ford Hospital West Bloomfield
November 12, 2011

Best Practices in Dementia Treatment
Fairy Tales and Endings:
End of Life Issues in Parkinson's Disease
Michigan Parkinson Initiative Symposium 2011
Lansing Center, Lansing Michigan
September 16, 2011

At a Loss for Words
Primary Progressive Aphasias
Kopp Lecture Invited Lecturer
Wayne State University, Dept. of Speech Pathology
April 11, 2011

Senior Expo
Knowing: The Warning Signs of Alzheimer's Disease
Sterling Heights, Michigan
October 31, 2010

Update on Alzheimer's Disease
Internal Medicine Grand Rounds

Beaumont Hospital
Royal Oak, Michigan
October 30, 2010

Stories of Dementia
World Alzheimer's Day Invited Lecturer
Southfield, Michigan
September 19, 2010

Memory Loss and Brain Tumors
Henry Ford Hospital
West Bloomfield, Michigan
September 13, 2010

Alzheimer's Update
Michigan Neurological Association
Boyne Mountain, Michigan
August 14, 2010

Winkleman Invited Lecturer
Many Faces of Frontal Temporal Dementia
University of Michigan
School of Social Work
Ann Arbor, Michigan
April, 2010

Normal Pressure Hydrocephalus: Not Just Big Ventricles
Neurology Grand Rounds
Henry Ford Health Systems
March 3, 2010

Creating Brain: Myth, Memory, and Amnesia
Prime Time! Life After 50 Expo
Jewish Vocational Service/ Jewish Federation
Jewish Community Center West Bloomfield
April 19, 2009

Not Your Grandmother's Dementia
Sisters, Servants of the Immaculate Heart of Mary
Monroe, Michigan
February 28, 2009

Neuropsychiatric Symptoms in Parkinson's Disease:
Depression, Psychosis, and Dementia
Promoting Optimal Health in Person with Parkinson's
Disease
University of Michigan Medical School
The Inn at St. John's, Plymouth, Michigan
September 12, 2008

Wisdom and Memories
Community Mental Health Forum
Waterford Senior Center
August 12th, 2008

Minding the brain (Headminders Project)
Clinical Medicine Chapter 12: Practical Problems in Adult
Care
Adult Primary Care Conference
Troy, Michigan
May 2, 2008

Transitions in the Management of Parkinson's Disease
Lewy Body Dementia
Michigan Parkinson's Initiative Symposium
St. John Inn and Conference Center
Plymouth, Michigan
September 15, 2006

Women's Neurology Update
Westin Hotel, Southfield, Michigan
September, 2006

Hot Topics in Women's Health:
Depression, Memory, and Aging
Henry Ford Health Systems
Tuesday, November 15, 2005

Update in dementia
Michigan Osteopathic Association Annual Postgraduate
Convention and Scientific Seminar
May 20, 2005

Genetic and Clinical Markers for Dementia
Southern Michigan Cytogenetics Conference
Henry Ford Health Systems
May 13, 2005

"Constellations: New Ideas in Dementia"
Internal Medicine Annual Update 2004
Henry Ford Health Systems
Southfield, Michigan
October 29, 2004

"Quality Matters: Best Practices in Dementia Care"
Live Interactive Videoconference via Satellite and the Web
Michigan State University College of Human Medicine

Thursday, June 10, 2004

“Mild Cognitive Impairment”
Neurology for the Primary Care Provider
Henry Ford Health Systems
Wednesday, May 12, 2004

“Cognition and Brain Function”
Opening reception for Detroit Science Center Exhibit
“Brain—The World Inside Your Head”
Detroit Science Center
Wednesday, November 5, 2003

“Masks and Mosaics—Genetics of Dementias”
Neurologic Diseases in the Elderly and Their Treatment
Henry Ford Health Systems
October 31, 2003
Program coordinator

“Hope in Pandora’s Box—An Innovative Approach to Dementia”
Michigan Dementia Coalition and Marquette General Hospital
Marquette, Michigan
Friday, September 19, 2003

“Caught in the Middle—MCI”
Western Michigan Osteopathic Association Fall Conference
Mackinac Island, Michigan
September 12, 2004

“An Alzheimer’s Primer”
Three part lecture for lay public, direct care providers, and physicians
Alzheimer’s Association Greater Michigan Chapter
Gaylord, Michigan
May 1 and 2, 2003

“Alzheimer’s Disease: The Continuum of Treatments”
Opening Plenary Session—Issues in Aging
Institute of Gerontology
Wayne State University
May 12, 2004

“Conquering the Complexity: ICD-9 Coding for Epilepsy and Dementia”
American Academy of Neurology Annual Convention
Honolulu, Hawaii
April 3, 2003

“Early Alzheimer’s Dementia and Mild Cognitive Impairment”
Annual Internal Medicine Update
Fisher-Titus Medical Center
Norwalk, Ohio
March 18, 2003

“Alzheimer’s: Brain Security Strategies”
Annual Geriatrics Symposium
Michigan State University College of Human Medicine
Grand Rapids, Michigan
November 15, 2002

“Chasing Zebras: Differentiating Among the Non-Alzheimer’s Dementias”
OHEP Center for Medical Education
Alzheimer’s: The Disease of the Millennium: An Update for the Practitioner
Dearborn, Michigan
October 18, 2002

“Neuroprotection”
Neurology for the Primary Care Provider
Henry Ford Health Systems
Dearborn, Michigan
November 13, 2002

“Alzheimer’s: A Caring-Giver Perspective”
Adat Shalom Synagogue
The Why and How of Bikkur Cholim
Farmington Hills, Michigan
October 13, 2002

“Dementia: It’s Not Just for Neurologists”
Family Practice Grand Rounds
Saginaw Cooperative Hospitals
Saginaw, Michigan
September 11, 2002

“Management of Alzheimer’s and Other Dementias”
Northeastern Michigan Osteopathic Association
Annual Summer Conference
Mackinac Island, Michigan
June 23, 2002

“Mild Cognitive Impairment”
Michigan Osteopathic Association Annual Postgraduate Convention and Scientific Seminar
Dearborn, Michigan
May 16, 2002

“New Faces of Dementia”
Annual Internal Medicine Update
Fisher-Titus Medical Center
Norwalk, Ohio
March 19, 2002

“Alzheimer’s: It’s Not Your Grandmother’s Dementia”
Psychiatry Grand Rounds
Detroit Veteran’s Administration
Detroit, Michigan
March 7, 2002

“Dementia: Nuts and Bolts”
Michigan State University Family Medicine Educational Day
East Lansing, Michigan
February 6, 2002

“Update on Research”
Mid-Michigan Chapter of the Alzheimer’s Association
Annual Meeting
Saginaw, Michigan
November 6, 2001

“Alzheimer’s: It’s Not Your Grandmother’s Disease”
American Osteopathic Association 106th Annual Convention
San Diego, California
October 23, 2001

“Translating Genetics into the Clinic – New Markers for
Alzheimer’s disease”
National Meeting Clinical Ligand Assay Society
Dearborn, Michigan
May 17, 2001

“All About Alzheimer’s Disease: A Community Workshop”
Macomb-Oakland Regional Center for Mental Health
Services
Macomb, Michigan
January 17, 2001

“Case Study Workshops for Geriatric Mental Health”
State University of New York Upstate Medical University
Detroit, Michigan
December 7, 2000

“Markers in Alzheimer’s disease”
Midwest Clinical Ligand Assay Society
Troy, Michigan
October 19, 2000

“Listening for Zebras: The Other Dementias”

Norman N. Krieger, M.D. Lecture on Geriatric Medicine
Wayne State University School of Medicine
Birmingham, Michigan
October 19, 2000

“An Unusual Case of Stroke”

Professor in Action
American College of Physicians
American Society of Internal Medicine, Michigan Chapter
Traverse City, Michigan
September 22, 2000

“It Isn’t Your Grandmother’s Disease Anymore; The New Faces of Dementia”

Central Nervous System Diseases Updates and Dilemmas
Wayne State University
Livonia, Michigan
September 15, 2000

Overview of Alzheimer’s disease

Behavior and Alzheimer’s disease
Alzheimer Association Caregiver Workshop
Riverside Osteopathic Hospital
Trenton, Michigan
July 11, 2000

“Houses of Bricks, Houses of Sticks: Memory and Aging”

Beaumont Hospital Medical Grand Rounds
Royal Oak, Michigan
June 21, 2000

“Alzheimer’s disease and People with Developmental Disabilities”

Macomb-Oakland Regional Center for Mental Health Services
Macomb, Michigan
June 14, 2000

“New Alzheimer’s Treatments”

Henry Ford Village Alzheimer’s Support Group
Dearborn, Michigan
June 13, 2000

“I’m Not Certain What This Is”: Diagnosis and Treatment for Non-“Alzheimer’s Dementias”

Third Annual Dementia Education Conference
Michigan Mental Health Association
Petoskey, Michigan
May 20, 2000

“Memory Loss and Dementia”
Anti-Aging Medicine Conference
Colorado Springs, Colorado
April 13, 2000

“Alzheimer’s disease: Don’t Be Misinformed”
Guest on Straight Talk
Hosted by Amyre Makupson, WKBD/UPN 50 Television
March 8, 2000

“Update on Alzheimer’s disease”
Alzheimer’s Association, Detroit Chapter
Southfield, Michigan
February 4, 2000

“Recognizing Alzheimer’s disease”
Heartland Healthcare Center
Allen Park, Michigan
January 20, 2000

“Dementia – A Clinical Consensus”
Henry Ford Hospital
October 8, 1999

“Multiple Sclerosis Related Cognitive Issues”
National Multiple Sclerosis Michigan Chapter Seminar
September 18, 1999

“Markers in Alzheimer’s Disease”
American College of Osteopathic Neurologists and
Psychiatrists Meeting
Mackinac, Michigan
July 16, 1999

“Overview of Alzheimer’s Disease”
Alzheimer’s Association
Caregiver Workshops
July 7, 1999
June 22, 1999
July 21, 1999

“Update on Alzheimer’s Disease”
Alzheimer’s Association

Detroit Chapter
June 15, 1999

"Diagnosis and Treatment Options for Alzheimer's
Disease – A Primary Care Perspective"
Oakwood Family Practice Meeting
March 16, 1999

"Confusion, Dementia, and Delirium"
Henry Ford Health System Clinical Case
Management Program
January 20, 1999

"Interdisciplinary Team Model with Dementia
Patients and Caregivers"
Henry Ford Health System Rehabilitation Conference
January 23, 1999

Bhonna Shatz, D.O.